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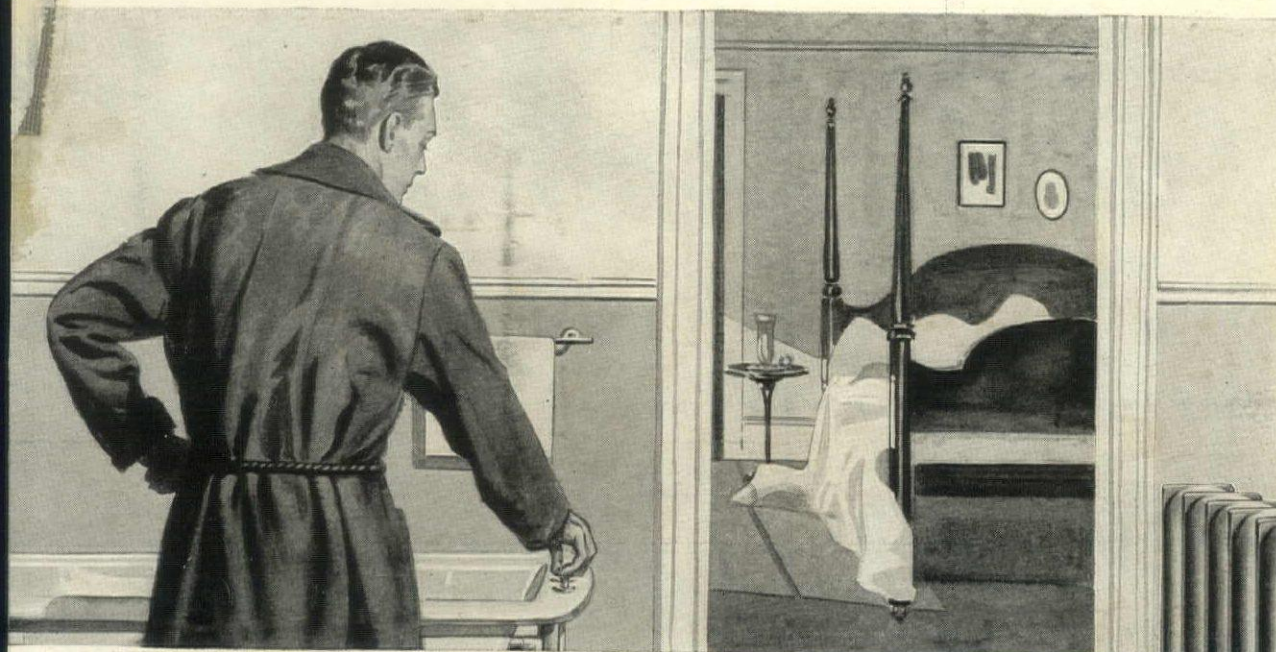
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"I read Collier's because it is balanced to suit the needs of the average tired business man. There is some fiction which is good, there are some timely articles which during the past year have been positively gripping and the editorials contain just the proper amount of clean philosophy and good humor to keep the doors of one's soul pleasantly ajar to the better things of life."—F. E. B., Butte, Ia.

Collier's ^{5¢ a copy}

THE NATIONAL WEEKLY

416 West 13th Street, New York City



The DUNHAM VAPOR HEATING SYSTEM

How you dread exchanging the warmth of your bed for the cold morning cheerlessness of the average bathroom! Install Dunham Heating and your winter-morning martyrdom is over. You can go to bed knowing that bedroom, bathroom, every room in the house, will be warm and cheerful in the morning.

The Dunham Thermostat can be set in advance to provide two temperatures—one, whatever you desire for comfort during the day and evening; the other, whatever you decide the house should be kept at during the night.

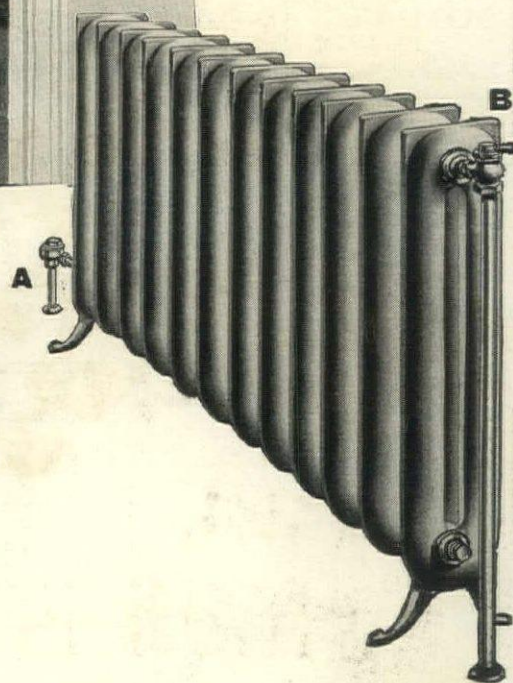
The Dunham Radiator Trap prevents knocking and pounding in radiators. For

it automatically expels the cause of the noise—air and water. It does away with the spurting, hissing air valve.

The Dunham Inlet Valve enables you to turn the heat either on or off, with a single turn, without even stooping.

Investigate Dunham Heating before contracting for the heating equipment in your new home. When moving into a new house see that it is Dunham heated. *Dunhamize your present heating system.*

Any Dunham office will be pleased to give your needs individual study, to furnish precise information as to cost and best methods of installation. Send for our booklet, the "3 H's." It throws a new light on the heating problem.



A DUNHAM RADIATOR TRAP

Does away with all pounding in pipes. Radiator heats immediately all over. No hissing air valve to spurt water.



B DUNHAM PACKLESS VALVE

No packing, therefore no leaking of vapor or water. A single turn and the heat is on or off. Installed at top of radiator—no stooping.



DUNHAM THERMOSTAT

As ornamental and useful as a clock. Fits on the wall—connects electrically. Can be set so that the house will be at any desired temperature any hour.

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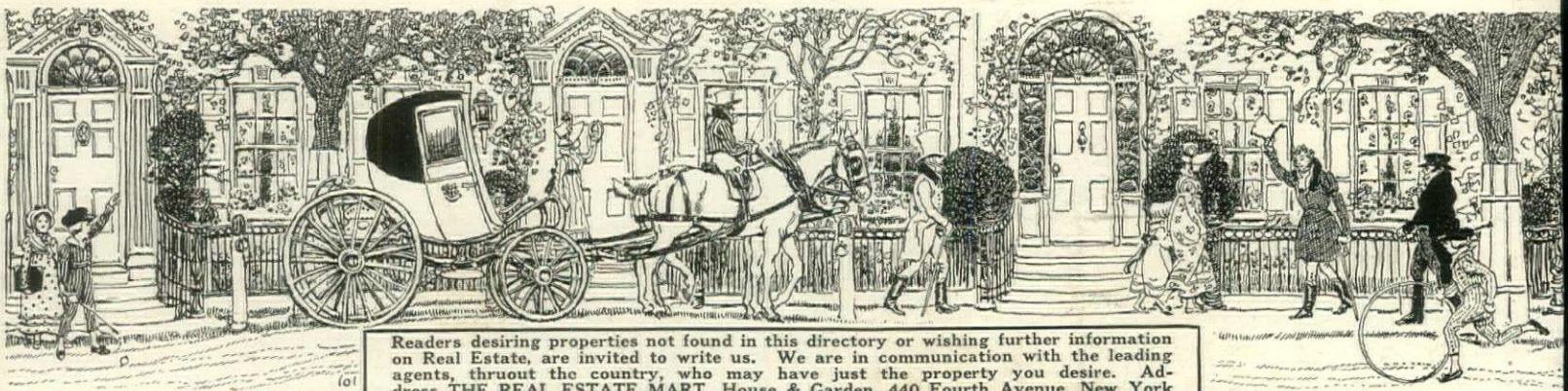
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Readers desiring properties not found in this directory or wishing further information on Real Estate, are invited to write us. We are in communication with the leading agents, throughout the country, who may have just the property you desire. Address THE REAL ESTATE MART, House & Garden, 440 Fourth Avenue, New York

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and dock. Clean,
deep water. For
sale, very reason-
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Brent 6286



12 large rooms, 4 baths, 6 fireplaces,
steam heat, El. light, garage, 2 cars,
2 rooms and bath. Finest bathing. Private
beach rights. Excellent neighbors.
Bargain.

H. B. JOHNSON, 60 W. 58th St., N.Y.C.

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"A HOME IN THE HILLS"
For Sale—175 acres; woodland;
brook; pond; stone house, 3
baths, hot water heat, electric
light. Convenient to golf course
and railroad station.

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850 acres in Central New York;

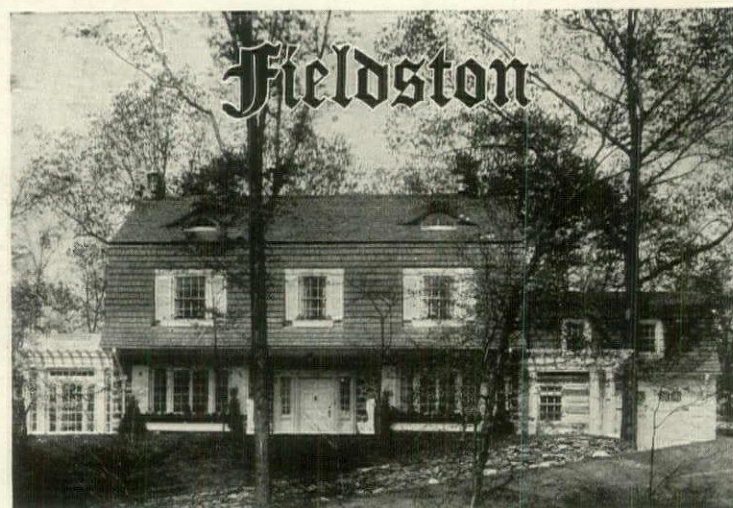
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views; near several large estates and
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Care of John H. Rutaff



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The hundreds of modern ideas
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comfortable and livable—are yours
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kind of information that may pos-
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surely time and energy—perhaps
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If so, the following
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formation which will help you to determine the general type of house
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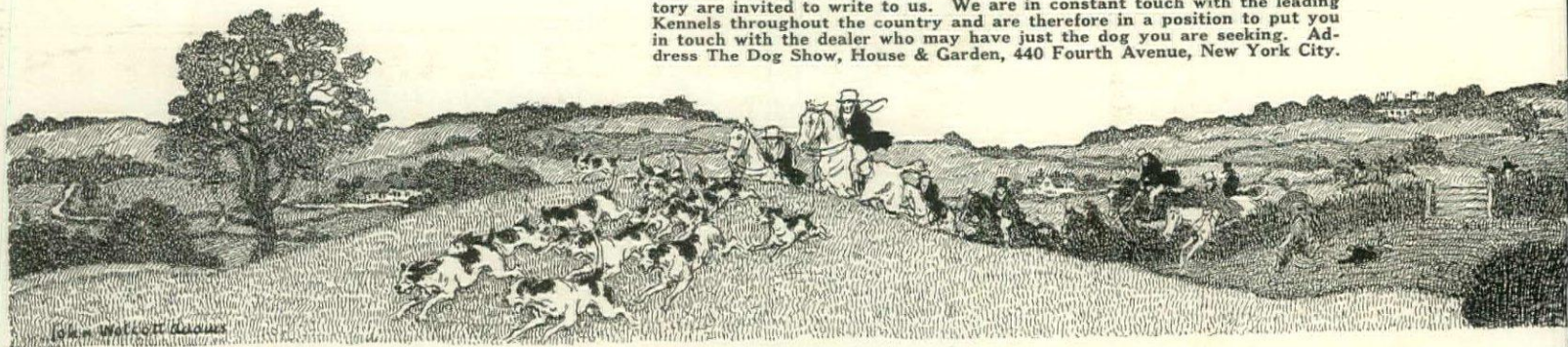
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full year, starting with April, for which find \$3.00 herewith (add \$.60 for Canada, \$1.00 for
foreign).

Name

Address

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Readers of House & Garden desiring a breed of dog not found in this directory are invited to write to us. We are in constant touch with the leading Kennels throughout the country and are therefore in a position to put you in touch with the dealer who may have just the dog you are seeking. Address The Dog Show, House & Garden, 440 Fourth Avenue, New York City.



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Toy white French Silk Poodles, from 5 pound parents, Pedigreed, smallest obtainable, rare Beauties, \$15.00. Toy Maltese Terriers, Toy Black and Tan, Toy Yorkshire Terriers, Toy Boston Terriers, \$15.00 up; Toy Pomeranians, \$25.00 up; Toy Fox-Terriers, \$5.00 up; St. Bernards, Great Danes, Newfoundlands \$20.00 up; Scotch Collies, \$10.00 up; Irish Terriers, Foxterriers, Airedales, English Bulls, Puppies and grown, Stud Dogs and Bitches in whelp. State wants. We ship anywhere. Dept. M., TREVOSE, PA.



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BLACK SHORT HAired CATTERY
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DOG DISEASES
AND HOW TO FEED
Mailed free to any address
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Pioneer
Dog Remedies

New York Dog Exchange, Inc.
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Danes or Newfoundland
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and Boston Bulls, Dachsunds,
Airedales, Chow-Chows, Toy
Spaniels, Pomeranians, Scotch
Collies, Pekingese, Italian
Greyhounds, Persian and An-
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Always the Best—At Lowest Prices
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Trainer of the famous
Champions
SMITH'S LADY
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and other famous
dogs. Wants to han-
dle your field trial or
shooting dogs.
Mississippi the quail
country of America.
Puppies and broken
dogs for sale.

Grady W. Smith, Lamar, Miss.

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Unusual Pedigrees and Quality
For breeding or any purpose, you cannot beat
my puppies with 38 Champions back of them.
"Pomeroy's Autocrat," A. K. C. 204974 at
Stud. Reasonable. Write me now. I have
what you want if you like something better
than the others have.

HOWARD D. POMEROY
English Walnut Orchards,
Lockport, New York
Established in 1910

PEKINGESE AND GRIFFONS
Fifty grown dogs and puppies, all ages,
colors, large number imported. Many
"sleeve" specimens. All Champion
bred and selected from the
first Kennels of Europe and
America. Some as low as
\$25. Write for descriptions
and pictures.
MRS. H. A. BAXTER
Great Neck, L. I., Tel. 418 or 459
Fifth Ave., Tel. 1806 Murray Hill

Thoroughbred Dogs

IN the interest of good breeding, we are picturing and describing, in brief thumb-nail sketches each month, some special breed of dog, together with a list of thoroughbred kennels. In previous months we pictured and described the Airedale, Police Dog, Bull Terrier, Pekingese and the English Bull.

Below you will find The Scotch Collie. On the page opposite, the Great Dane.

Ask us about all kinds
of dogs. We will be
glad to advise you where
they may be procured.

The Dog Show
House & Garden
Which is a recognized American House & Garden
Condé Nast—Publisher
440 Fourth Ave New York

What is your breed
preference?
What is the approximate
price you wish to pay?

Who's Who in Dogdom

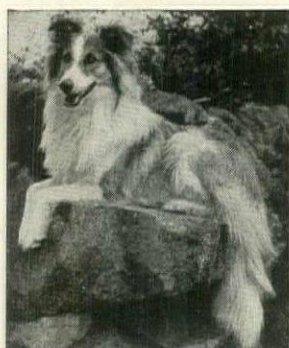
Ever hear of a dog so
intelligent you had to
spell out words you didn't
want him to hear?

That's what the owner
of a Collie says he has
to do, because, he adds,
"The dog understands
our talk perfectly, and
it's the only way we can
keep him from hearing
things we don't wish him
to know."

If the Collie is pre-
eminent for his intelli-
gence, he is the more so
for beauty.

The rare coloring and
his wealth of long golden
hair makes him an ideal
show-dog on the country
place. He takes to hills
and the broad out-of-
doors like the true na-
ture-lover that he is.

An evidence of the
fidelity of a collie to its
owner is recalled by the recent death of the
old shepherd of Central Park, who was re-
tired about three years ago.



The Collie

Some five years or so
previous to this, he was
presented by the late J.
Pierpont Morgan with a
beautiful collie from the
most valuable stock in his
kennels (Mr. Morgan had
at that time the largest
and most valuable kennel
of collies in the world).

This dog turned out a
perfect sheep dog and was
greatly attached to the
old shepherd.

When the shepherd re-
tired, owing to the pre-
sumption that the dog
had really been given to
the city and not to the
shepherd, it was kept in
the fold at the park.

This proved a sad mis-
take on the part of the
city authorities, for when
the dog discovered the
loss of whom he regarded as his real mas-
ter, he began to grow melancholy and after
one week's sorrowing, died of a broken heart.

Directory of Scotch Collie Kennels

Alstead Kennels
Balla Balla Kennels
Bilsdenn Kennels
Brookmore Kennels
Getmore Kennels

Glen Tanna Kennels
Hillcote Kennels
Harleston Collie Kennels
Hawthorne Collie Kennels
Imma Kennels

The Island White Collie Kennels

Kish-Ke-Kosh Kennels
Lovedale Kennels
Pinewood Kennels
Ridgecrest Kennels
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Read about the Great Dane on the opposite page



Wire Haired Fox Terriers from Conejo Kennels Are Winners

The gentleman's dog. "Sensa-
tional British Champion" went
through all his classes to winner
in Westminster Show, 1916. An
ideal dog for country and city life.

For Sale—Puppies and grown
dogs. Write for Stud list, prices
and description. Address

CHAS. TRAYFORD, Mgr.
HUNTINGTON, L. I.

AIREDALE TERRIERS

From the greatest living sires, Champion
Soudan Swiveller, Champion Gold Heels
and King Oorang. Classiest and bravest
dogs ever bred, the popular dog of the
times, splendid companions, romping play-
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dog for the house, country or the farm. We
make a specialty of intellectual development
as well as fine physical qualities. Puppies
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At stud, the blue ribbon winners Champion
Harry Jones and Fair Play, the best son of
Ch. Gold Heels, and magnificent fifty pound
dogs. Stud fees \$15.00. Prices reasonable.
Shipped on approval to responsible parties.

THOMAS KERRH BRY
232 Clark St. Westfield, N. J.
Phone 424 M

Select Your Easter Gift at Dog Land, Inc.

Dogs and Puppies of
all breeds. A most
attractive litter of
Police Dogs for your
country home.

Mrs. L. W. Hall
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RIDGEWAY KENNELS

Owner G. W. Quintard

Announce that their annual DRAFT SALE LIST of Wire Haired Fox Terriers is now ready. Splendid bargains in imported stock, and a great opportunity to secure stock sired by

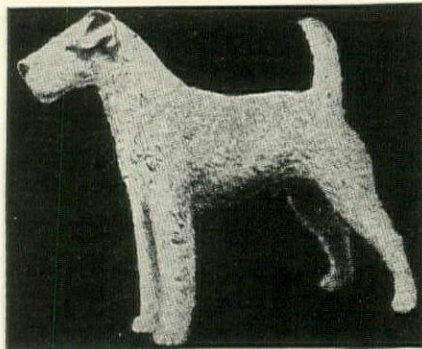
Champion Wireboy of Paignton and Champion Raby Dazzler

Acknowledged to be the two best Wire Haired Fox Terriers in the World. Nothing less than \$25.

Apply to **RIDGEWAY KENNELS**

Charles Button, Mgr.

P. O. Box 51, Bayside, Long Island, N. Y.





Ch. Some Boy
(My Own Breeding)



PUPPIES FOR EASTER GIFTS

The Dog Shop

Mrs. D. D. DUNN

15 East 35th Street

Just Opposite Altman's

Telephone, Murray Hill 6025

All breeds for sale; pedigree, condition and shipment guaranteed

Bank Reference: Columbia Trust Co.



Collies Only

Patrick Tully, Owner

Sarsfield Collies Kennels
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New York Office
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SARSFIELD COLLIES
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Registered Collie Puppies

From free range, hardy Northern dogs, trained to work. Make natural stock drivers, fine pets and watch dogs. State requirements.

Harleston Collie Kennels, Hallowell, Me.



ST. BERNARDS



This is the dog who won Best Rough Dog at New York Show, 1914. Also Best American Bred Rough Dog or Bitch and Winners' Rough Dog. The largest show in America. Puppies for sale—also Collies.

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Phone 855-J

WOULD you like to study room-arrangement, decoration, color-schemes, furniture, rugs, draperies and a thousand and one other similar suggestions?

If these subjects interest—then surely you will want the forthcoming May **Summer Furnishing Number**.

This attractive issue contains a host of illustrations and text about home-furnishing and interior decorating.

Each article and picture is selected as if especially for you—with a view to beautifying your home and securing more comfort.

You will find the May number an excellent example of what is offered each month.

A small investment of \$3 for a yearly subscription (twelve exceptional numbers) may save you \$300, or even \$3,000 or more, because of its many valuable suggestions on decorating and furnishing, which harmonize and make your home attractive.

Special Introductory Offer

Or, if you prefer, you may take advantage of our trial subscription offer (to new subscribers) for six forthcoming issues, at the special introductory price of \$1.

Let your subscription start with the May **Summer Furnishing Number**. It is not necessary even to write a letter. The coupon is easier and quicker.

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House & Garden, 440 Fourth Ave., N. Y. As per your introductory offer, please send me the next five numbers of House & Garden, beginning with May (Summer Furnishing Number). On receipt of bill I will remit trial subscription price of \$1. (Regular subscription \$3.) Or, I enclose herewith \$1, for which send me the next six numbers, beginning with May.

Name
(Please write name and address very plainly.)

Address

City & State
H G 4-16

Who's Who in Dogdom

(Continued)

The Great Dane

JUST because he is big and brave, is no indication that the Great Dane has a savage and vicious disposition. On the contrary, he, of all breeds, is well-behaved and docile.

"I have seen ten and twelve of these dogs run together with never a fight, day in and day out," says a well-known breeder. "They have had strangers in to see them with never a growl. This speaks volumes in refutation of their being savage."

"Anyone who has come into close intimacy with a typical Dane and had him for a comrade and pet can never wish for a better. When of good parentage and well-trained, the Danes or German Boarhounds, as they are sometimes called, are as kind and

gentle as could be wished. They are ideal companions and guards for the home."

"As a comrade, friend and playmate for children, the

Dane is loyal in affection and even in temper. They do not cause disturbance in the house, as one might expect. Rather, they are quiet and unassuming."

The Dane is a stately patriot, with the strength, power and courage of a good companion—a dog ideal for the country estate.



The Great Dane

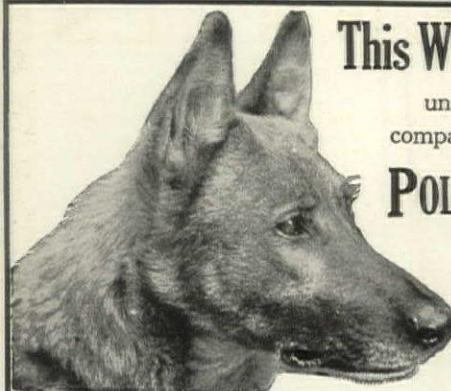
Directory of Great Dane Kennels

Albert G. Davis
Elkton Farm
O. C. Harriman

Holdfast Kennels
Kinnelon Kennels
George D. Leith

Charles Ludwig
George W. Schenk
John Schwarz

Winderbourne Kennels
Hailon Kennels
Royal Farms



This Will Not Interest You

unless you love dogs for companionship and protection

POLICE DOG PUPPIES

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WE have found a way to answer all your questions.

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Your Questions Answered

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Our only consideration is that you are sincere in your desire for information—that you will advise us whether the service supplies your wants and meets all your requirements.

Send the Coupon

You may enclose the coupon below in an envelope, or paste it on a postal. Or, if you prefer, you may write a letter.

We will see that you are supplied with the kind of information that may possibly save you many dollars—surely time and energy, perhaps ill spent.

Let House & Garden Information Service solve your every living problem.

Free Information Coupon

House & Garden Information Service,
440 Fourth Ave., New York.

I would like to know more about the subjects noted below or outlined in the letter attached. Please arrange to have free information sent me promptly.

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Do you want the most beautiful, hardiest and quickest growing variety of fowl, with High Egg Production and Show Qualities combined? Then try the **White Orpingtons**, and send for our catalogue with color plates of our National winners and layers.

ALDRICH POULTRY FARM
Box 763, Sta. B.
COLUMBUS, OHIO

POULTRY SECRETS

Valuable 130-page data-book. Facts on lowering death-rate, getting 100 per cent hatches, highest prices, etc. Illustrates improved incubators.

WRITE TODAY

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Also 39 Barclay Street
New York City

POULTRY—a hen and ten chicks in pure-bred stock from beautiful, fast-maturing, egg-producing thoroughbred Rhode Island Reds, Barred Plymouth Rocks and White Leghorns. Raise your chicks in Nature's way. Circular explaining merits of our birds free.

ROYAL POULTRY FARM, Box 10, Menominee, Michigan.

I WANT a position. I have made poultry pay. I can positively show a big profit in any poultry farm. I have had very wide experience in both the commercial and fancy sides of poultry raising.

If you are interested, address
L. M. K., care of House & Garden, 440 Fourth Ave., N. Y.

CHICKS THAT LIVE—\$15.00 per 100

Tiffany's Superior, Silver Laced, White and Partridge Wyandottes. S. C. White Leghorns, \$12 per 100. Pekin, Rouen, Runner (DUCKLINGS) 25c each, \$20 per 100. World's Best Blood Lines.

SAFE ARRIVAL GUARANTEED.
F. A. Tiffany, R. 31, Phoenixville, Pa.

5000 Eggs per Day

From the "Million Egg Farm"

Fresh S. C. White Leghorn hatching eggs shipped when you want them fresh laid in a single day.

100 Per Cent Fertility

Guaranteed

Over 1,100 customers in 41 States bought 140,000 hatching eggs from us last season. No orders too small, too large.

Day Old Chicks—Delivery Guaranteed

A live chick guaranteed at your express station for every one ordered. Send for free booklet, giving prices of hatching eggs and day old chicks.

Rancocas Poultry Farms
Box 50 Brown's Mills, N. J.

G. D. TILLEY
Inc.
Naturalist

"Everything in the Bird Line from a Canary to an Ostrich"

Birds for the House and Porch
Birds for the Ornamental Waterway
Birds for the Garden, Pool and Aviary
Birds for the Game Preserve and Park

I am the oldest established and largest exclusive dealer in land and water birds in America and have on hand the most extensive stock in the United States.

G. D. TILLEY, Inc., Naturalist
Box H. Darien, Conn.

"Entirely Satisfactory"
Says the State of Illinois

Prof. D. O. Barto, State Agricultural Experiment Station, Urbana, Ill., says: "We use nothing but prepared roofing on all of our poultry houses. The brand that I have used a good deal of is RU-BER-OLD. I have found this roofing material entirely satisfactory."

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RU-BER-OLD roofing costs less by the year than many cheaper roofings because it will not run, crack, curl or rot. It has proved its durability on every type of building. Tell your dealer you want

Pronounced "RU" as in RUBY
RU-BER-OLD
ROOFING
COSTS MORE - WEARS LONGER
Ideal for Poultry Houses

Roof your poultry house now with RU-BER-OLD and you will use it later on your home and other buildings. Be sure that you get the genuine, which has the "Ru-ber-old Man" (shown at the left) on every roll.

Mail the coupon and get the book, "Building a Poultry House" and other books containing valuable plans.

The STANDARD PAINT CO.
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Send samples of RU-BER-OLD and books opposite which I mark X. I intend to roof a

☐ Building a Poultry House
☐ Roofing a Home
☐ Building a Bungalow
☐ Building a Barn
☐ Building Your Own Garage
☐ Covering Your Factory
☐ Artistic Roofs

If a dealer, check here ☐

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Address _____

Baby Chicks

Now is the time to order your baby chicks for fall and winter layers. Get them from the breeder whose birds are "always in the ribbons." Mating List and Catalog gladly sent for the asking. Write today.

Wilburtha
POULTRY FARMS

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TRENTON JUNCTION, N. J.

WILLIAM COOK & SONS
Est. 1873

ORIGINATORS of all the ORPINGTON FOWLS AND DUCKS
SCOTCH PLAINS Box G NEW JERSEY

If you want to keep the Best fowls, keep the Orpingtons, any of the colors, and if you want the best Orpingtons, send to their Originators, who naturally have the best, as proved by our winning over fifteen thousand first prizes.

Our birds have won numerous Government laying contests. We keep and made the Buff, White, Black, Diamond Jubilee, Spangle, and Blue Orpingtons.

Send for our annual CATALOGUE and mating list, containing history of all the Orpingtons, and hints on poultry keeping.

We guarantee safe delivery and satisfaction, which is backed by a reputation of forty-three years. Advice free.

Ornamental land and water fowl for sale.



World's Championship

AWARDED

Martling Silver Campines

The Strain without a Peer
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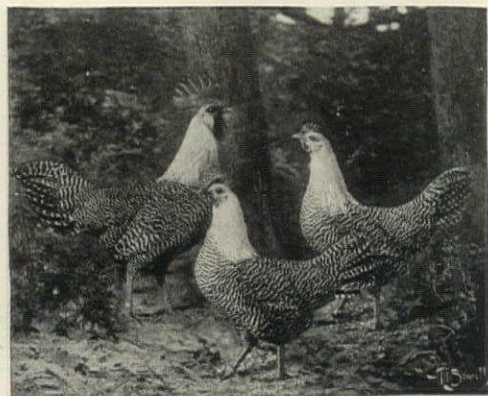
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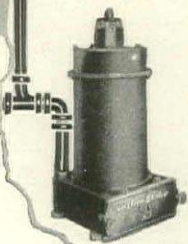
To put in the piping for the cleaner and the wiring for Inter-phones is a simple matter when the house is going up. The additional cost is slight. The only visible parts are inconspicuous openings in the baseboards, covered by hinged lids, where the cleaner hose is connected, and neat wall plates for attaching the Inter-phones.



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APRIL, 1916

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¶ Readers of HOUSE & GARDEN have at their command a staff of competent architects, landscape gardeners, practical farmers, kennel experts, poultry raisers, interior decorators, antique and curio experts and shoppers of whose services they can readily avail themselves. Inquiries will receive prompt replies. Landscape gardening questions requiring a drawn map and a planting table are charged \$10, payable in advance.

¶ Addresses of where to purchase articles will be sent by mail without charge. The HOUSE & GARDEN Shopping Service will purchase any article shown on these pages.

¶ The Editor is always pleased to examine material submitted for publication, but he assumes no responsibility for it, either in transit or while in his possession. Full return postage should always be enclosed.

¶ The address of subscribers can be changed as often as desired. In ordering a change, please give both the new address and the name and address exactly as it appeared on the wrapper of the last copy received. Three weeks' notice is required, either for changing an address or for starting a new subscription.



A Garden Doorway Shown in the May Number

SUMMER FURNISHING

¶ In May you begin to do either one of two things—summer furnish your home or furnish your summer home. For both problems the May number brings a host of suggestions—delectable cottage furniture of the very latest line and tint, wicker willow for the porch and the lawn, shoals of pillows of the sort you heap high in Cape Cod hammocks, inexpensive curtains and all the little accessories that bring summer into the house. For the gardening miss comes a page of smocks and hats fresh from their creator's hands. And to help her make that garden more livable, practical hints on growing peonies; on starting a rose garden—which is quite simple and quite inexpensive; on growing shade plants and vines around the porch.

¶ A garden without birds is almost as bad as a garden without flowers. Ernest Harold Baynes, the Big Brother of the Birds, tells you how to attract them to your garden and make them your friends.

¶ These, and a host more of ideas are in the May number. Doesn't it sound tempting?



© Marian C. Coffin

Canterbury bells and kiddies, Madonna lilies and a little lake—a heaven no bigger than a yard. The yard is attached to the house of Mrs. J. Clifton Edgar at Greenwich, Connecticut, and it was designed by Marian C. Coffin, who makes beautiful gardens



In simplicity, not grandeur, lies the charm of the modern country home. It may be Italian, as here, or Tudor, or half-timber, but it must serve the needs of a simple countryside life

THE CHOICE OF A STYLE FOR A COUNTRY HOUSE

Which Shows That a Man Does Not Have to Build
Three Houses Before He Gets One That Suits Him

GARDNER TEALL

Photographs by Jessie Tarbox Beals

THE architectural style of a house for a site in the country is a thing that cannot be determined by any such procedure as that governing the arbitrary rules which, for instance, dictate fashion in dress.

There should be no such thing as fashion in home-building, notwithstanding the fact that occasionally certain styles for exteriors and certain styles for interiors become, for the moment, the obsession of builders, now and then of architects, and of decorators. To paraphrase a commonplace (maddening to the heart of an artist), "I know nothing of art, but I know what I like," one might well interpret the philosophy of certain house-builders to include the confession, "I know nothing of architecture, but I know *what* I like."

The countryside still continues to suffer from the depredations of such people. "Why do you like it?" you feel like asking Mr. Wellington Blank, who is building a battlemented cottage (first story Gothic, second story Georgian, and third story Mongrel Mediæval) down in the valley. Perhaps Mrs. Trivial Rutt, who once paid a visit to Stratford-on-Avon, insists on a half-timber style for a country house almost vast in proportions and formal in intentions, because she cherishes the memory of Henley House.

Of course these are extreme cases, for it is doubtful if any real architect of to-day would consent to carry out a set of plans and a design so obviously anachronistic in the one instance, and so unsuitable as in the second, by reason of the damage his reputation would be apt to sustain in either case. The builder, of course, could go ahead with anything—more's the pity!

THE TRUTH ABOUT BUNGALOWS

Perhaps few architectural ideas have proved more popular with country dwellers

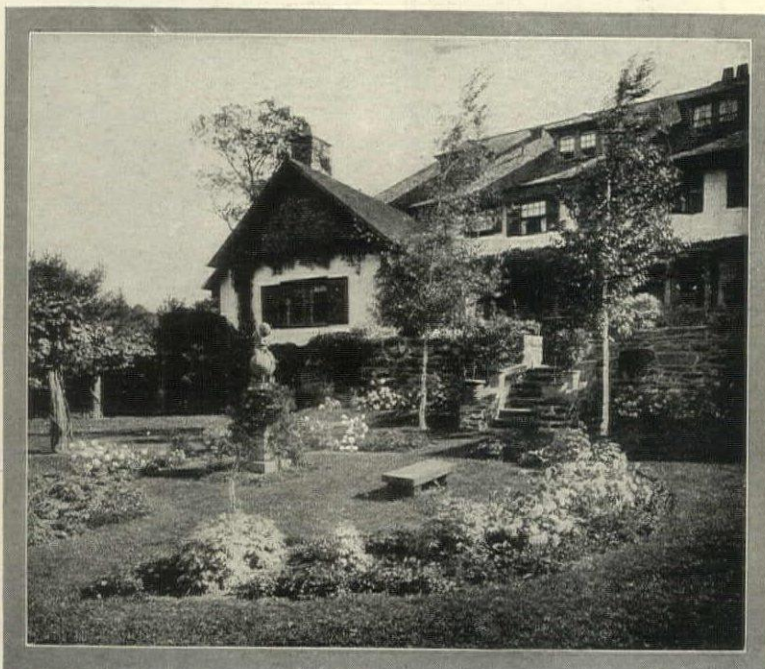
than that of the bungalow. The artistically designed and conveniently planned bungalow, well fitted to its site and amply sufficient to the needs of its occupants, is an idea with which we need not quarrel. On the other hand, it is doubtful if any other form of dwelling has been more abused through its adaption to unsuitable sites and localities or through attempting to adapt it to purposes for which its simplicity was never conceived. The idea of the bungalow has, in turn, been endowed with much that, perhaps, it does not possess, as the name alone so bewitchingly suggests an epitome of cosy comfort that it has even been sentimentalized by song writers.

THE RIGHT THING IN THE RIGHT PLACE

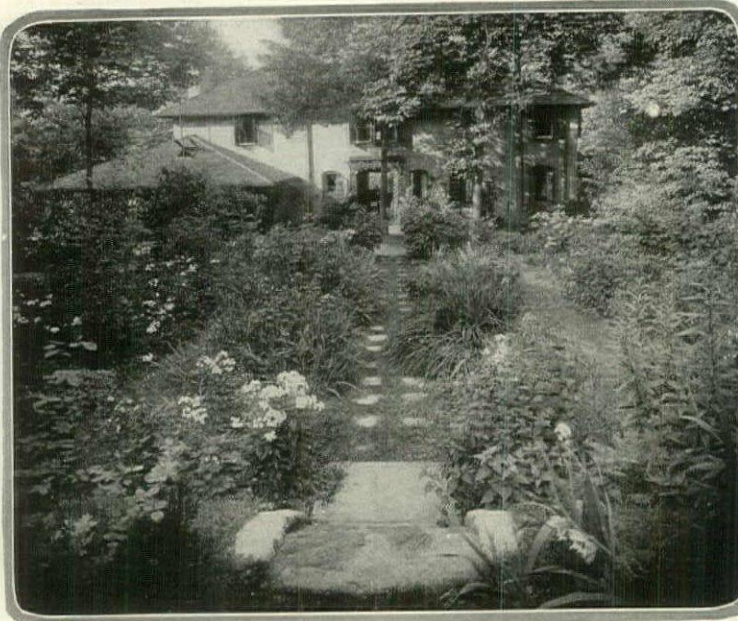
Now there can be nothing cosier, more comfortable or more desirable than the right bungalow for the right family in the right place. But let any one application of this thrice-used adjective be substituted by the word *wrong*, then, as in the case of any house for the country dweller of any sort, you will

instantly realize that there must be no faddism in house-building, that one must not build a bungalow, a Georgian cottage, a Dutch colonial or a half-timber house just because any one of these styles is enjoying a vogue in some other place, or is receiving much attention and illustration in print.

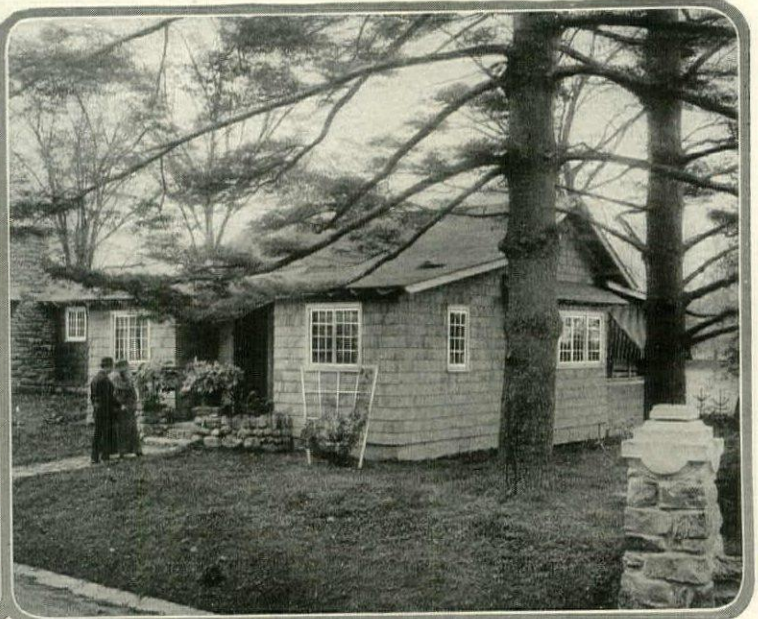
Many of our masters of domestic architecture—there is not a better designation for dwelling-houses in good taste—specialize in the Georgian, the Dutch Colonial, or in some other architectural style. This does not mean that, if a half-timber house is really the best suited to the country dweller in some definite locality, the architect who specializes in the Georgian style is not an excellent adviser, designer and plan-



As most of the time is passed out of doors, the summer house garden is a real necessity. It should, in reality, be another living-room



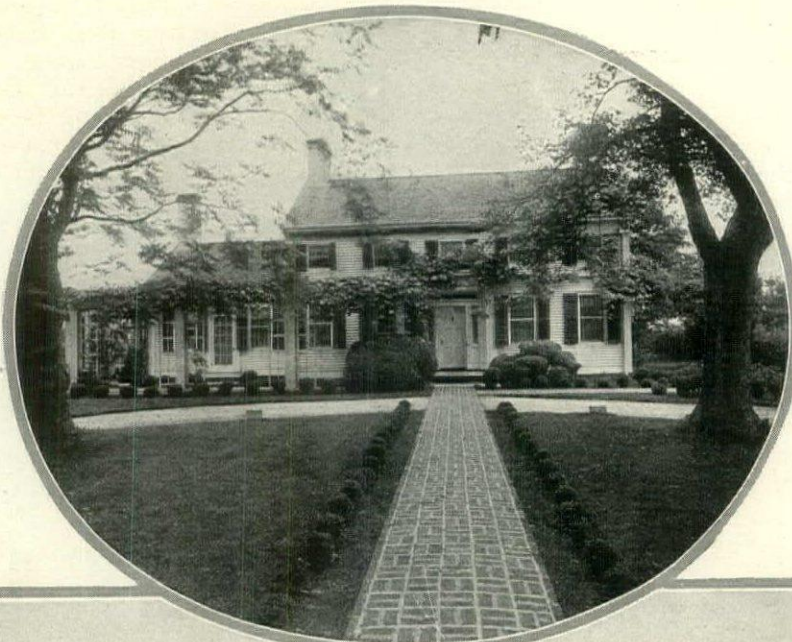
Whether there shall be much shade or very little is a matter of taste and of luck in choosing a site. Thus, for some this type of embowered cottage is vastly preferable to the solitary Italian house on the previous page



For the moderate purse no form of country house excels the bungalow. It should be comfortably roomy, but not so large as to require much work in caring for it. Other types of bungalows can be seen on page 35

ner for the country home-maker in some other locality to whom a half-timber house, in turn, would be but an architectural white elephant, so far as his personal requirements or the community contact was concerned. I think many people approach the problem of a house in the country burdened with traditional fears inspired by the wretchedly misleading old saying that a man must build three houses before he can arrive at one that will suit him.

True it is that some home-makers have lived in (one might with accuracy say through) not only three, but half a dozen houses before accepting one as being suited to their needs. But such are the exceptions, and one cannot conceive why, with intelligence, thought and forethought, the first house cannot at the same time be the only house, and that from choice and contentment. After all, satisfaction may follow common sense.



This belief in the theory of experience being the only reliable teacher in the school of house building is bad enough, but there is also another thing which is apt to lurk in the minds of prospective country dwellers. Somewhere back in the dark ages there originated the myth, as deeply rooted as Igdrasil, that if a man was told by his architect a certain house would cost \$5,000, that house was sure to cost \$8,000 before the home-maker was through with it. Ergo, the opprobrium of the suspicion came by custom to be heaped upon the head of the architect.

I suppose few home-makers planning to build in the country realize how prone they are to desire or to require changes in the plans of the house during the progress of the work of building. Such changes are, almost always, added expenses. Again, the inexperienced home-builder may expect to save a goodly amount by letting



The square Colonial style lends itself to a country setting and is roomy and comfortable



Equally attractive is the Colonial farmhouse set beneath large trees and surrounded with shrubbery

Rounded arches along the first story give a country house a desirable sense of spaciousness



The truth about the bungalow is this: that no type is more popular, because cheap and convenient, for summer living; and no type of architecture has been more thoroughly abused. But it must be the right bungalow for the right family in the right place. It should be part of its site, as is this rustic treatment

the building contract to some bidder, about whose work or integrity he knows little, just because the bid was lower than one entered by a reputable builder whose bid was, in itself, within the architect's estimate. Then when the building of the house had progressed, the owner would find the dishonest or incompetent contractor substituting materials, or obliged to demand changes, etc., all of which annoyance, expense and disappointment, let it be remembered, might and should have been avoided by sensibly letting the building contract to builders known for their responsibility.

House-builders in general have, fortunately, been educated to an understanding of the true service that can be rendered them by the architect, a service as deserving the customary recompense as is that of the physician, though, like the doctor's bill, there often seems a disposition to consider it beyond the pale of the reasonable. This all has to do with the choos-

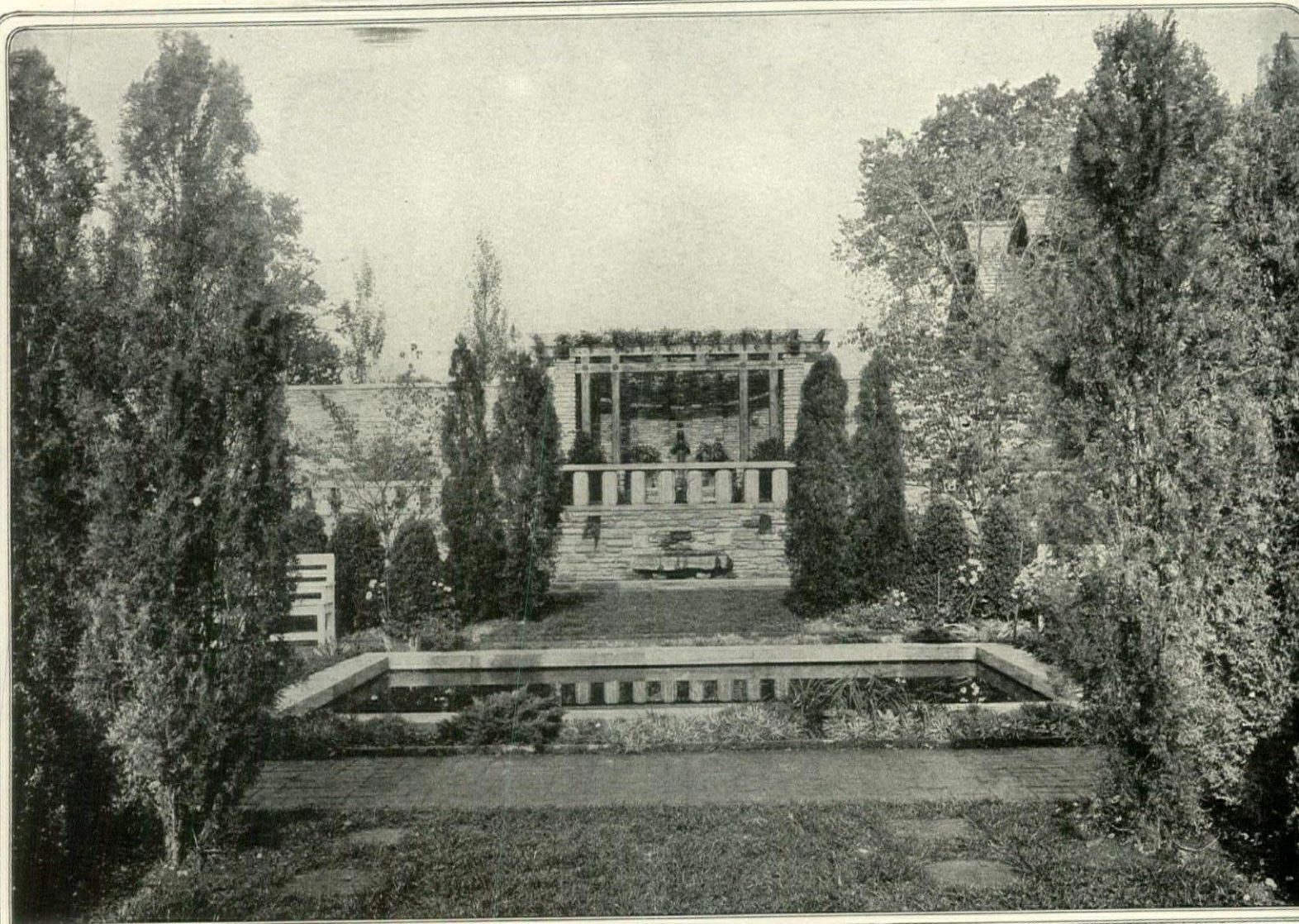
ing of a style for a house in the country more directly than, perhaps, one might think, for there can be no doubt but that the home-builder who has not had building experience, or who has not given study to the problem of the suitability of certain styles to certain sites, should turn to the architect for consultation and enlightenment. This is not to say that one should not have preconceived ideas on the subject, yet though these may be excellent, advisement may bring about their modification, even in minor phases, that will render them far more acceptable than the original conceptions to all concerned.

HARMONIZING THE HOUSE AND THE SITE

There are two methods of procedure common to home-makers about to build. One is the choice of a house to suit a chosen site, and the second is the choice of a site that will
(Continued on page 78)

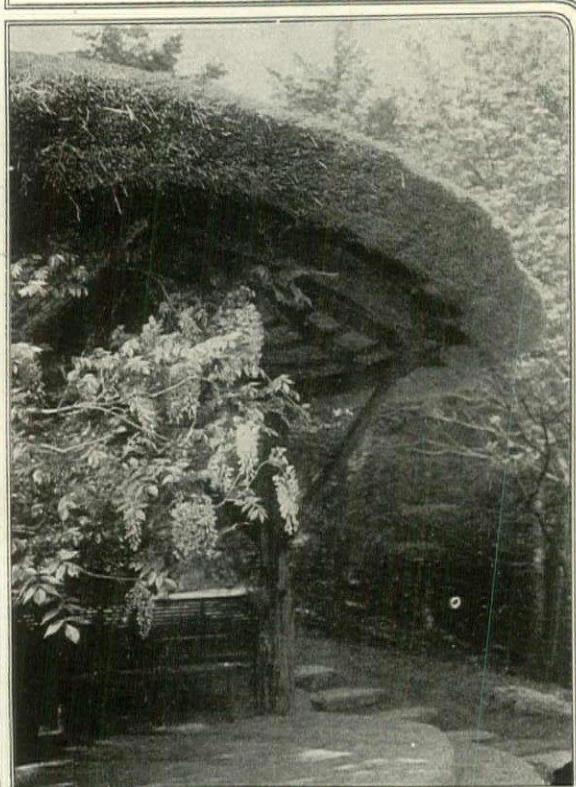


Three elements decide the kind of house you will build: the kind of house you want, the sort of site you want to place it on, and the nature of the life you are to lead there. Thus, this house here is built for comfort and hospitality. It is a product of its site



THE GARDEN AT "KRISHEIM," RESIDENCE OF DR. GEORGE WOODWARD, ST. MARTINS, PHILADELPHIA

OLMSTED BROTHERS, Landscape Architects

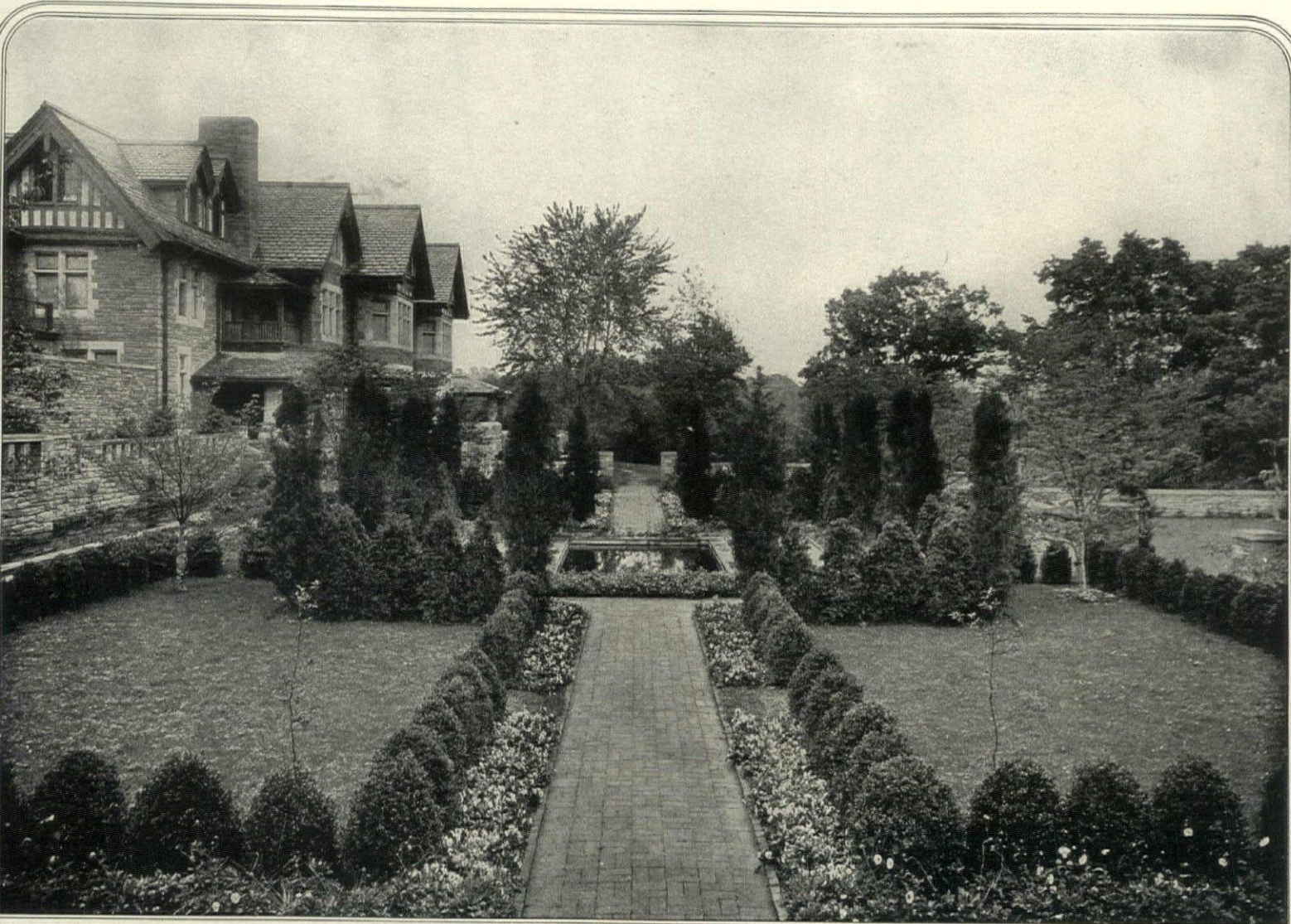


The recessed pergola stands on the right of the house, shown opposite, its rear wall being a continuation of the house wall. This view is what one sees looking along the cross axis of the garden

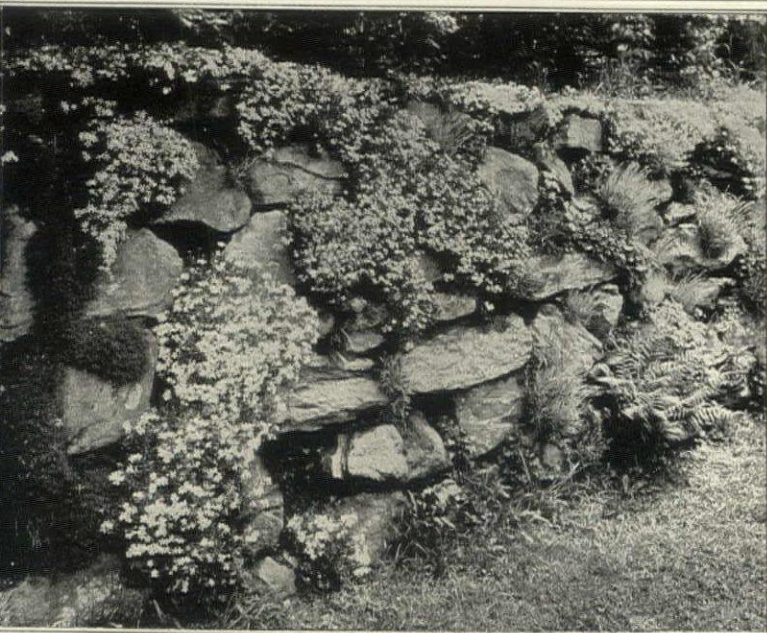
It is remarkable what a touch of thick thatch and wistaria will do to give the garden a feeling of old Japan—not a mere adapted feeling, but the real genius of the flowery kingdom gardens

Some day American gardeners will learn the beauty that lies in the dogwood tree and will use more of it in their gardens. Here it lightens the darker trees and gives a bit of rare charm

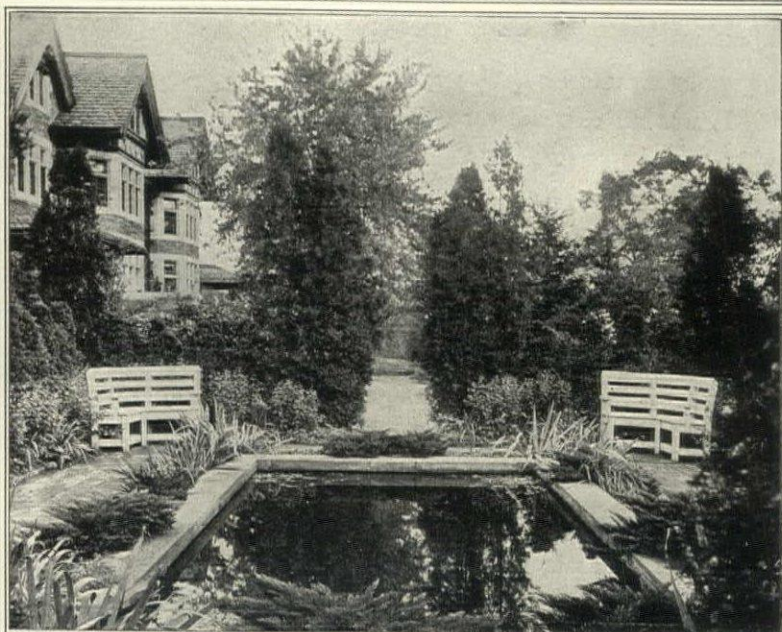




The main axis of the garden fronts the house—a straight brick path lined with small arborvitae and edging plants and broken midway by the pool. Tall cedars stand about it, but the pool's the thing. It is the garden's mirror, and no garden is so small or purse so poor but that it can afford a pool



Visualize this first as nothing more than just a wall, stones, mortar and bits of moss. Then see it as it is here, with rock plants growing out of the crevices and ferns in the crannies. That's the secret of successful gardening—to make the little unsuspected corners glimpses of unusual beauty



Garden seats are nothing more than part of a decorative scheme unless they are pleasing to look at, comfortable to rest in, and placed where one can command a view or catch a glimpse. When they are all that—as they are by this poolside—they prove indispensable to those who appreciate gardens



"I settled down to live in that street and evidences of its mental derangement were soon forthcoming"

HOUSES WITH THEIR BACKS TO THE STREET

A Serious Dissertation in the Interests of Privacy

ROLLIN LYNDE HARTT

Illustrated by HERB ROTH

A MILE or so from the Harvard Yard there are two fine houses with their backs to the street, and I well remember my astonishment when I first saw them. They reminded me of what the painter Gérôme once said to a pupil of his: "Oh, my dear young lady, six toes on one foot? Somebody is mistaken, either I or you, or—the model!" In exactly that mood I cried out, there in Brattle Street, Cambridge, "Some one is crazy, either I, the houses, or—the street!"

As I am still at large and the houses still there I think the craziness was the street's. Besides, I have more convincing proofs. I settled down to live in that street and evidences of its mental derangement were soon forthcoming. At three in the morning huge, four-horse market carts began thundering through, the drivers yelling at their nags and shouting at one another. If I opened a window in rising, dust poured in; gasoline fumes likewise. All day this continued, yes, and till far past bed-time. Later on came the honks and ear-piercing squawks of automobiles returning from the Country Club. Before a week was out I ceased laughing at the houses with their backs to the street and wished that my own had been built that way.

TRANSPORTATION VS. TRANQUILLITY

It was an extreme case, granted; but even when you scale it down to the ordinary experience, do you not find that the growth of cities, the new developments in transportation and other changes that have come over our American life within recent years unite to make the street less and less agreeable to look out upon? If houses have begun to show it their backs, it is because in a sense figurative, but none the less grave on that account, the street has turned its back on the houses. It no longer smiles and sings. It snarls.

In the old days there was music in the cheery clatter of hoofs and the sociable rumble of carriage wheels. One liked to "see the passing," which consisted of acquaintances then and now consists largely of strangers. One could sit on a front piazza not only in comfort, but with undisguised pride. It was pleasant to indulge in a kind of innocent posing, as if to say, "Observe my prosperity as exemplified in this tasteful mansion, the well-kept lawn, the flower beds, and all that," and the pose was taken in good part by "the passing." People were not inclined to poke fun. They knew you. If you put a Rogers Group in your drawing-room window or erected cast-iron stags, divinities and philosophers on "the grass," they kept a straight face and enjoyed the show. For a long time things went on in that style. There are traces of them still.

In our newer cities some one is sure to draw you aside pretty soon and whisper, "For heaven's sake don't tell who told you, but the truth is, this town is just a great, big overgrown village." And yet "the truth" is rapidly losing its truthfulness even there. Not only have noise, dust, gasoline and social changes spoiled the village idea, but a new development in taste has made it seem—well, not ridiculous, exactly, but no longer quite becoming.

This new development in taste began when it became the custom for Americans to visit Europe. They were disgusted

at first with town houses that made no show and with village houses that had high stone walls to conceal their front yards and with country houses invisible from the road. It seemed that the owners had deliberately set out to cheat "the passing." And when they beheld French houses built with their backs to the street, it was proof positive. But presently it dawned on them that perhaps there might be something fine and delicate and eminently civilized in just this. It bespoke modesty for one thing, a delight in privacy for another. It raised the question, "Whose is a house, anyhow—the owner's, or the public's?"

IT WAS IMPORTED

Returning home they were amazed at our American ostentation and the strange lack of sensibility it expresses. They could pardon Mr. Barr Ferrée's rather caustic remark, "America has not yet found out the sort of house a gentleman would like to live in." They viewed the garish chateau of James Vandeventer Smith, the soap man, and contrasted it with the house his Grace the Duke of Wessex had built for himself in

London, utterly plain outside, filled with Rembrandts, Titians and Veroneses inside. They wondered if maybe his Grace were not the better gentleman. Six weeks later, of course, they forgot wondering, and yet the idea had taken root deep within them.

Recently another development has tended the same way—the development known as "modern efficiency." We have overhauled our factories, our shops, even our colleges, to see where waste of effort and material and space occurs, and how to stop the waste. Why not tackle our houses? Why not demand that they yield the last iota of practicality and fulfill their purpose completely? What are comfort and cheery brightness unless they are built upon a foundation of unwasted effort?

Here and there some pretty startling absurdities will come to light. At Mr. James Vandeventer Smith's, for instance,



The garden view of a house with its back to the street, the Cambridge residence of Allen W. Jackson, architect



The street and its noises and prying eyes are cut off from this house because its living quarters have faced the garden in the rear



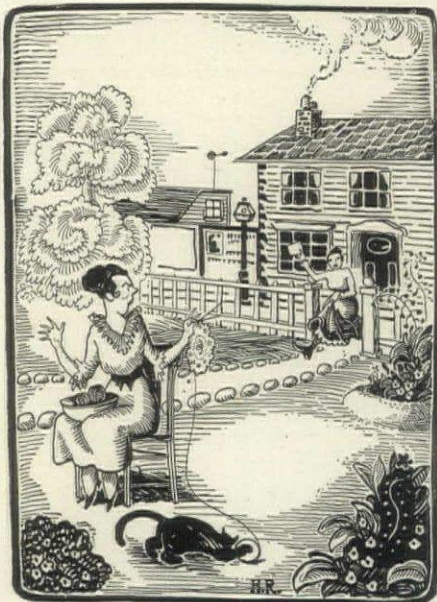
Just because the house has its back to the street does not militate against its architecture. This is the street view of Mr. Jackson's house

In order to obtain a spacious front lawn, Mr. Smith has planted his chateau far back on the lot, but how does the spacious front lawn benefit Mr. Smith, or, for that matter, Mrs. Smith and the girls? They cannot sit there. It is too noisy, too dusty at times, and at intervals invaded by unwelcome fumes, to say nothing of the publicity. All the Smith family derive from it is "eighty feet of respectability." Meanwhile, observe their back yard. It is not big enough for a garden, and small as it is, it belongs to Bridget. Indoors, the same disregard for efficiency. The quietest, wholesomest, most livable rooms downstairs are given over to "service." In a word Mr. Smith has built his chateau the wrong end to.

Now suppose that for the sake of good taste, privacy, efficiency and by way of demonstrating that his house is his own, Mr. Smith should turn his philosophy upside down and his house around and his yard also. There is precedent for that. Frenchmen have done it. So have those little masters of good taste, the Japanese. Besides, there are the two fine houses with their backs "fronting" Brattle Street, Cambridge, while other examples are to be had in America besides those. The number increases. In years to come the arrangement may cease to attract attention, radical though it still sounds. Let us cast the balance and discover what the Smith family would gain and lose by the venture.

LOSING A FRONT LAWN AND A COOK

Obviously, they would lose their front lawn. A strip of green would remain; the room for flowers, too; but the house would be close to the sidewalk. And it is clear that they would lose, for the most part, their view of "the passing." With the rest they would sacrifice their idea of a house as a show-case; they would no longer be parading their prosperity for outsiders to stare at. Finally, they would be robbing Bridget of her back yard. Theoretically, at least, Bridget would rise in her wrath and leave, indignation oozing from her bulging tin hand trunk.



"Mrs. Jones, who used to run across the lawn whenever Mrs. Smith appeared, has ceased her visitations"



"Theoretically, at least, Bridget will rise in her wrath and leave."

times and not know it for a kitchen any more than you would know the laundry for a laundry.

OPEN FACE DOMESTICITY

So the reversed house, with its service end to the street, agrees not to insult that thoroughfare by presenting a "Mary Ann back." Smith's architect can make it as handsome as he likes. The great difference is that Smith surrenders his liking for what, in a less solemn mood, I could term "open-face domesticity," and goes in for a quiet, reserved and (once he gets used to it) agreeable seclusion.

Which brings us to the points he has scored by turning his house and lot around. First and foremost, the garden. Instead of a useless lawn in front of his abode, he now has a genuinely serviceable private park behind it. From mid-spring to mid-autumn the garden is his open-air living-room—dining-room, even. A sensible fellow, Smith has taken over the French idea of a garden. Shielded by the house on one side

and by vine-clambered walls on its other three the enclosure affords complete privacy. It is his at all hours, weather permitting, and he takes a hint from the French as regards that. At least a part of his garden he covers with gravel, which dries quickly after rain, so that there is no need to stay indoors because of wet grass after rain.

Mrs. Smith deplores the walls at first. They seem unneighborly. But she finds that this has its advantages. What (Cont'd on page 90)



"A sensible fellow, Smith took over the French idea of a garden. He has a walled-in private park"

THESE lines are written as an answer (for I haven't the courage to make it face to face) to an Hibernian handmaid who recently spring-cleaned the library. Not that she will ever see them, or understand, should she see them; satisfaction must be gained in the expression. The brute (she really was) wiped all the dust off the books, put half of them back on the shelves upside down and then had the effrontery to say that she didn't see why we kept the old truck anyhow.

Returning the books upside down one can forgive and rectify; mixing un-Comstocked Boccaccios and unctuous Matthew Arnolds and renegade Arabian Nights is only a venial sin; wiping off the dust of many years' silent, patient accumulation is regrettable—nothing more; but to call books *truck*, to infer that one ought to throw them out because one rarely touches them, to state that one grows out of them in the same way he grows out of knickerbockers and shirt bands and boots—this is past comprehension. For the library is the only instance where one can pour new wine into old bottles without the accustomed results. Besides, whether one does or does not grow up in books depends on one's attitude.

THERE are two attitudes one can hold toward books; two and a shadowy third. One can look upon them as having decorative value, like a length of beautiful fabric, or a candlestick or a chair, which is the aforesaid shadowy third; one can consider them from the viewpoint of Bridget on a rampage of spring cleaning—that they are an abominable nuisance; or one can cherish them as part of one's self—flesh of the flesh and bone of the bone. What we think of books doubtless means *very* little to the books; a cat may look at a king. But what we think of books does mean a great deal to the rest of the world, because it is a fairly reliable index of the way we look upon life, upon other men and women.

The man who considers books a decorative asset—things to be bought by the yard to fill an allotted space—may seem crude and unlettered, but he is not to be dismissed with scorn. He may not appreciate but he tolerates, and toleration is the threshold to the abiding place of understanding. True, this is a poor attitude, but better than none at all.

Or one can be concerned with books as the product of human endeavor, the consummation of an author's striving and sacrifice, the crystallizing in verse or narrative or exposition of some splendid pain, some riot of laughter or some night of prayer. We may rarely turn a page and still creep in under the low gate of those who love books. We may maintain a purely passive attitude toward them. Then some day we may drain that same chalice of life and catch a glimpse of that same glory, and thenceforth the book and we are one.

Bridget, on the other hand, considers books as things. I would consider books as friends—brothers in binding. Bridget, the iconoclast, believes that books can get worn out, that one can grow up in them.

THE BATTLE OF BRIDGET AND THE BOOKS

SOME books are like measles—they are perfectly permissible in childhood. The man who indulges in measles at fifty, however, is consid-

ered positively immoral. This is wrong. We should cling to our measles books—our fairy stories and Mother Goose and Br'er Rabbit and Slovenly Peter. They have a great meaning for us. Take one down and glance through it. Here are the ends attained in the stories—the weak conquer the strong, the dull of wit overcome the learned, the innocent are delivered out of the hands of their enemies, light is given to them that sit in darkness, the mighty are put down from their seats and the humble and meek exalted, the hungry filled with good things and the rich sent empty away.

School books we keep from sentimental association, from a sense of economy, thinking that they may do for our children or because we make a vague promise to ourselves that some day we will re-study these subjects. Of course, we never do. But there they stay, awaiting the moment when we will want to turn aside from work to brush up on the English kings or do sums in cube root.

A third kind which we seem to grow up in are the ones we bought in our esthetic, decadent, swashbuckling days. Some of us read Swinburne to barmaids and some Oscar Wilde; some smoked scented cigarettes, and some wore cravats and socks to match. Whatever the form it took it was a glorious consciousness of self—fine ribald laughter, nonchalant rioting through the House of Life, heedless, happy, hectic, hot-blooded.

And these three types represent necessary ascending stages in the evolution of the youth; his glimpse of truth in the ideal, his study of truth in the application, his testing of truth in an unfolding life of "instincts immature" and "purposes unsure."

TO journey at fifty with Alice in Wonderland, to re-learn Euclid, to fling our mental roses riotously with the throng, for just such purposes do we keep "this truck" that Bridget would cast away. For Bridget is wrong. We do not grow up *in* books, we grow up *to* them. To throw even one of them away would make us as immoral, as inconceivably immoral as a drunken archdeacon.

And there we are, back at the reason why, when the Hibernian handmaid person wanted to throw out some of my books in the spring cleaning, simply because I never read them, I rebelled. And there they will stay, although she will never understand why—because they are my literary G. A. R. who fought valiantly with me through the campaigns of childhood and youth. They were my battle units—the intrepid scouts that led me safe into strange lands, the tireless sappers that dug a way through the lines of my enemy, the nurses and doctors that soothed and healed my wounds when I dragged back from conflicts with relentless men and commerce awearied and sorely hurt.

IN A GARDEN OF GRANADA

*The city rumor rises all the day
Across the potted plants along the wall;
The sun and winds upon the slopes hold sway,
Tossing the dust and shadows in a squall;*

*The sun is old and weary—weary here
Upon the aging roofs and miradors,
The broken terraces and basins drear
Where each old bell its ancient echoes pours,—*

*Ring—what memories to ring—to those
That linger here—the lizard and the cat
That haunt these solitudes in state morose
Through the long day, their habitat,—*

*Untroubled—save when in the moonlight steals
Some voice in song across the lower wall,
And sudden magic each old rafter feels
The while the echoes round it rise and fall*

*For, as the wail of love or sorrow rings
Along the night, soft steps are on the stair
And pathway; in the broken window things
Are stirring; and white arms are lolling there;*

*And that old rose tree lifts its head anew;
And there is perfume o'er the hills afar
From where Alhambra's crescent cleaves the blue
To where agleam Genil and Darro are.*

*O, Voice!—what is thy necromantic word
That all Granada waits adown the years?
Is it the sound some love-swept night has heard?
The cry of love amid the cry of tears?*

THOMAS WALSH.





The infinite uses of cement and tile for interior finish and decoration, and even for built-in filments, are graphically shown in "Font Hill," the residence of Charles Chapman Mercer, Esq., at Doylestown, Pennsylvania. The Columbus Room, one of the numerous bedrooms, boasts a tessellated tile floor and arched tile ceiling that give the feeling of real Italia

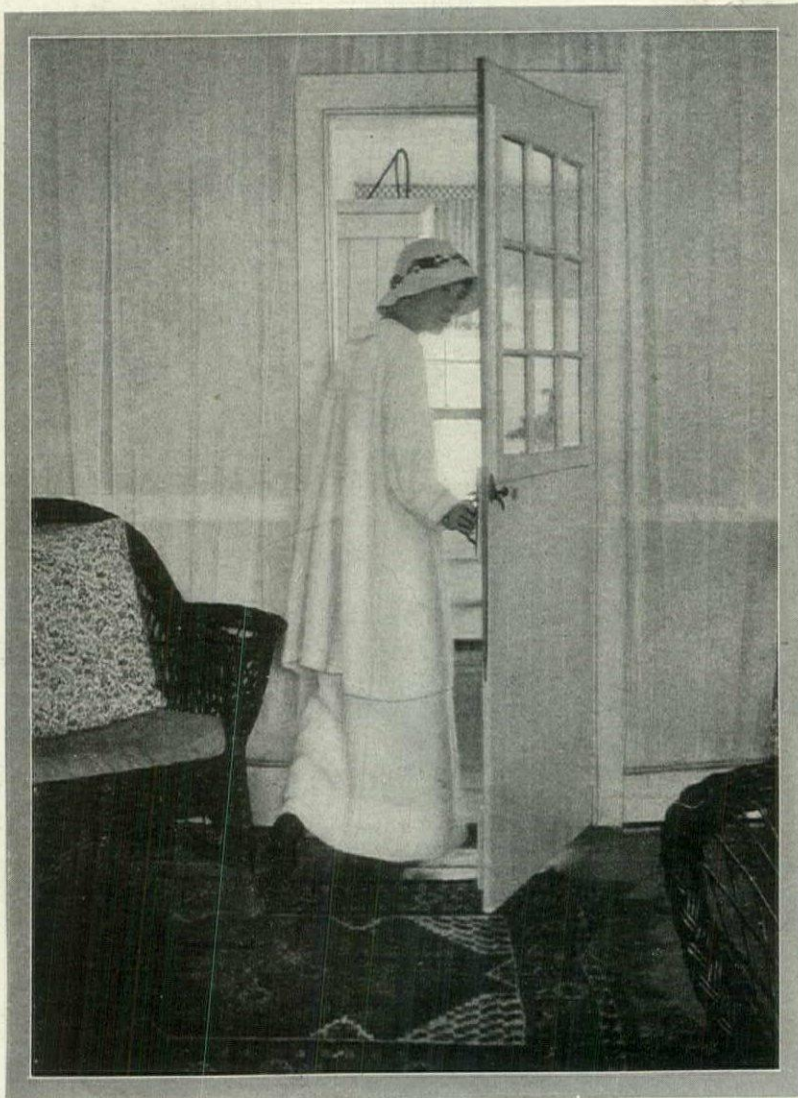
WITH MUCH TASTE AND LITTLE MONEY

Lattices, Window-Boxes, Paint, Flowers and Bird Sticks with Very Slight Architectural Changes Made This Deserted Old Long Island Cottage Into a Veritable Picture House

MARY K. FORD

GIVEN the services of an architect and ample means wherewith to carry out his plan, the reconstruction of an old house to suit modern needs and tastes is a simple thing. But many who desire a country home have little beyond their ingenuity and taste to rely upon, and I should like to tell such people of a recent successful attempt at "doing over" a rather unpromising little cottage.

A New York business woman found on the south shore of Long Island, outside the commuting zone, a forlorn little house with some seven acres of land. Undisturbed by the dismal prophecies of her friends she bought the property and set to work to make the cottage habitable. It stood under two enormous walnut trees very close to the highway, with its side to the road, and consisted of the original buildings and a small addition. The main portion of the house was divided into two small bedrooms, a sitting-room with an unceiled attic above. The one-story addition contained the dining-room and a minute kitchen, hardly more than a closet. The space over the main house served as a servant's room and was reached by a rickety flight of steps leading from the kitchen. Not a prepossessing outlook, to be sure, and yet one in which lurked evident possibilities of future attractiveness.



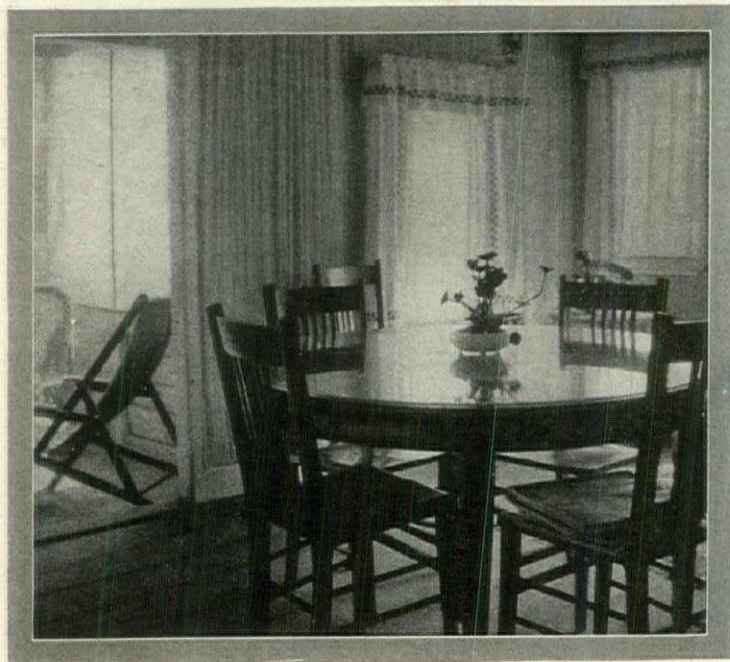
The soft effect of the white cheesecloth hung walls made a charming background for the furniture and gay cushions

The first thing the new owner did was to have the foundations strengthened, and such portions of the floors as were too uneven were removed and new floors laid.

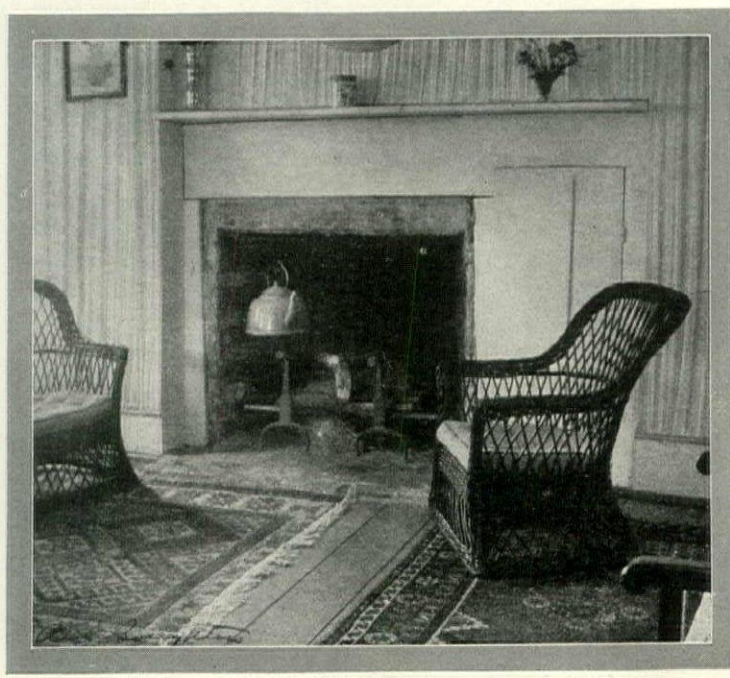
Across the rear end of the cottage she built a one-story extension which contained a small store closet, a screened-in bricked porch for the servants, and a small elementary sort of bathroom with a stationary washstand and tub. There was no system of plumbing—the water was brought in from the pump by hand, but it was allowed to run out upon the grass.

THE NEW WORK

At the side of the house, in continuation of the roof line from the extension, she built a large screened porch which opened out of the dining-room. This porch is about 8' x 16' and makes a charming open-air sitting-room and adds considerable seating capacity to the house. The floor is of concrete mixed with Venetian red, which gives it a soft pinkish tone. A large white canvas hammock of the Cape Cod variety was placed across one end of the veranda and was piled with pillows of white canvas trimmed with linen striped in blue and yellow. The chairs and tables on the veranda were also painted dark blue, and the cushions matched those of the hammock. Quick-growing



The dining-room opened onto the screened porch floored with pale orange-colored cement



Like all old houses the little cottage possessed a good, simple fireplace with a chimney closet

vines were trained to screen the end of the porch that looked upon the highway.

The outside of the house was given two coats of white paint, and the tin roof one coat of red.

Flower boxes were placed at every window filled with pink geraniums and orange colored calendulas.

Over the front door she built a small latticed entrance porch and added a lattice across the front of the roof line in order to add width to the eaves. Two windows on the south side were also enclosed with the lattice and a little red brick walk was laid from the roadway to the front stoop. Two trim little box-wood trees in red pots were set at the end of the walk in front of the stoop.

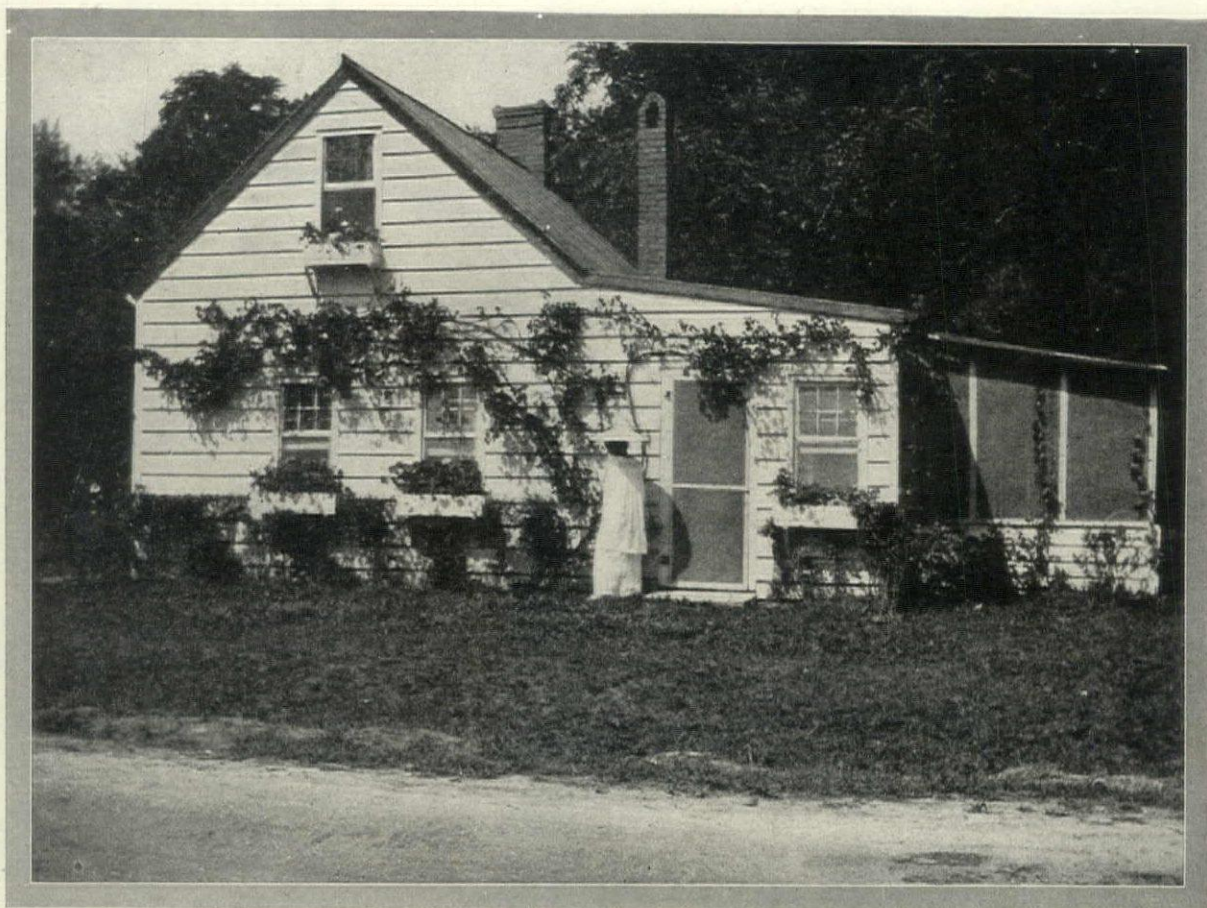
THE GARDENER'S TOUCH

A space at the back was enclosed in a lattice-work and quick-growing plants and vines were set out to screen the drying-ground, the rain barrel, and other unornamental properties from public view, for the cottage stood close to the highway. The grape-vine on the front of the house was pruned, the long neglected hedge trimmed, and the grass cut. A bed of hollyhocks and other old-fashioned flowers was planted under the sitting-room windows, and the house that was once a desolate shell on the South Country Road is now a dwelling-place of so much charm that almost every motor car that passes the door slows down so that the occupants may get a longer view of the quaint little cottage which looks exactly like a cross-stitch on a green background.

Inside the house, the same simple taste has produced a delightful effect with very inexpensive furnishings.

A SOLUTION FOR OLD WALLS

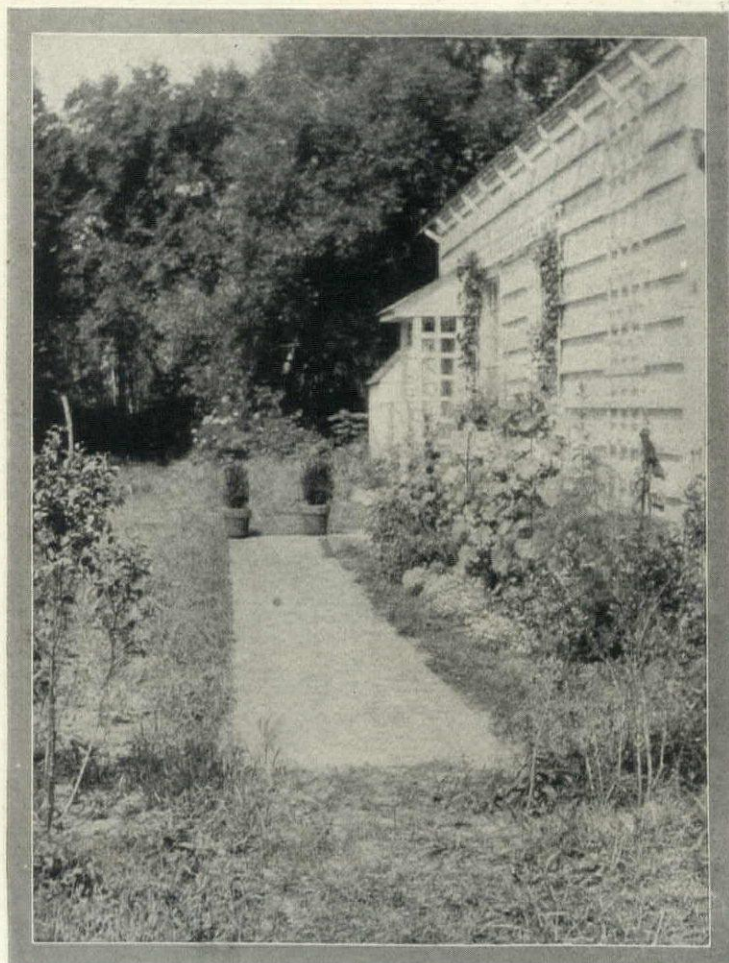
The walls were in bad condition, the plaster so broken and cracked that it was hopeless to think of papering them, and as the owner was anxious to get in as soon as possible, replastering was out of the question. She solved the problem by buying several bolts of white cheesecloth, cutting it into



The screened veranda at the back was the only architectural addition; all the other transformation was wrought by the foliage of the old grape-vine that draped itself gracefully over the windows and doors, and by the little white flower-boxes filled with salmon-pink geraniums, orange-colored calendulas and nasturtiums

Two views of the shabby little "Nutshell" as it was when purchased last March

The south front just three months later. Latticing was used as a cornice across the roof to bring the line down and as a decoration around the windows and at the side. The cheerful little red brick walk, the gay painted bird sticks and the riotous hollyhocks made a brilliant mass of color against the freshly painted white house



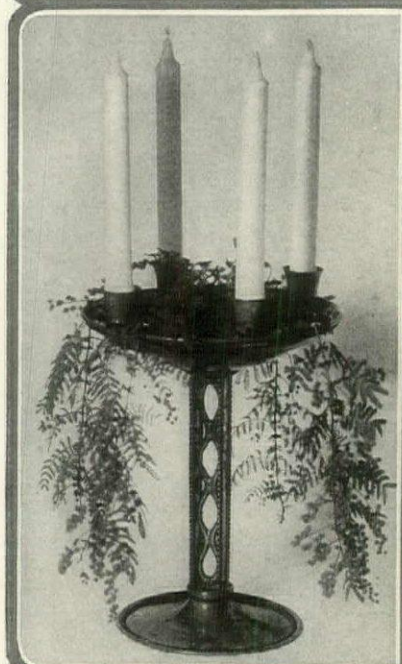
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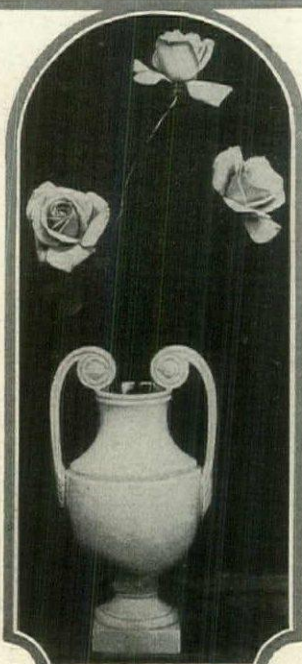
FOR THE FLOWERS THAT BLOOM IN THE SPRING



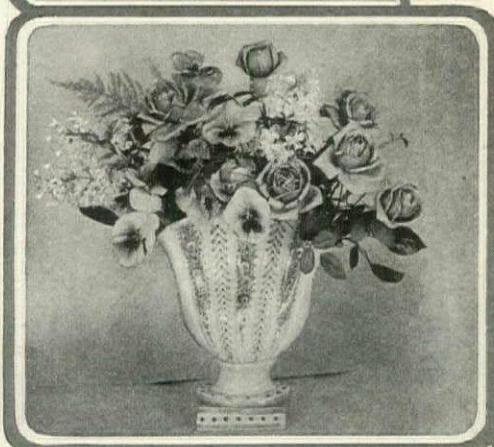
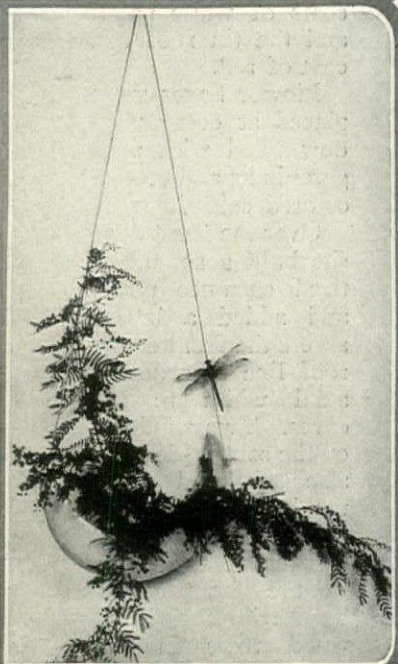
Have something to do with the vase! The vase you can buy through the HOUSE & GARDEN Shopping Service; for the names of the shops write HOUSE & GARDEN, 440 4th Ave., New York



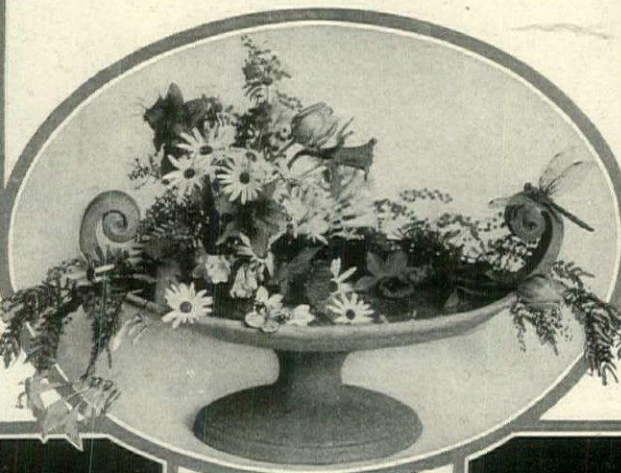
An unusual centerpiece that lends itself to simple flower arrangement is a Florentine candelabra of the "fired in" enamel metal so popular. It is yellow with a black beading and stands 10½" high. \$7.50. Flowers by Stumpp



Distinctly Japanese is this crescent hanging bowl of cream colored earthenware from which trail long sprays of mimosa. A dragonfly adds a touch of realism. The crescent is 10" wide. \$2.50. Flowers by Stumpp

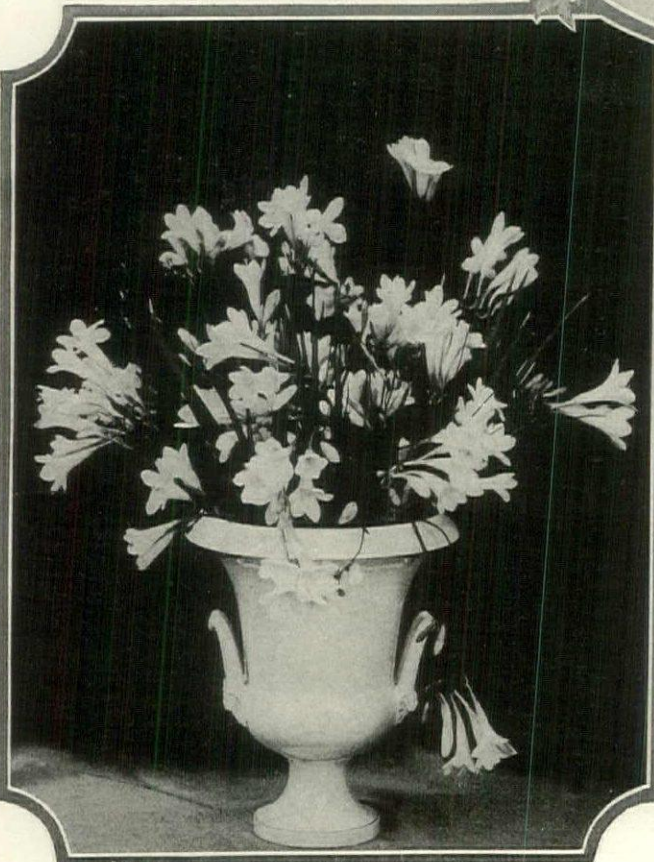


Three perfect Ophelia roses delicately flushed with color seem the fitting complement of a tall Greek vase of Wedgwood ware. It stands 11" high and sells for \$8. Flowers by Stumpp



For the boudoir or morning room comes a fan-shaped vase of Nove ware, 7½" high. \$7. Flowers by Max Schling

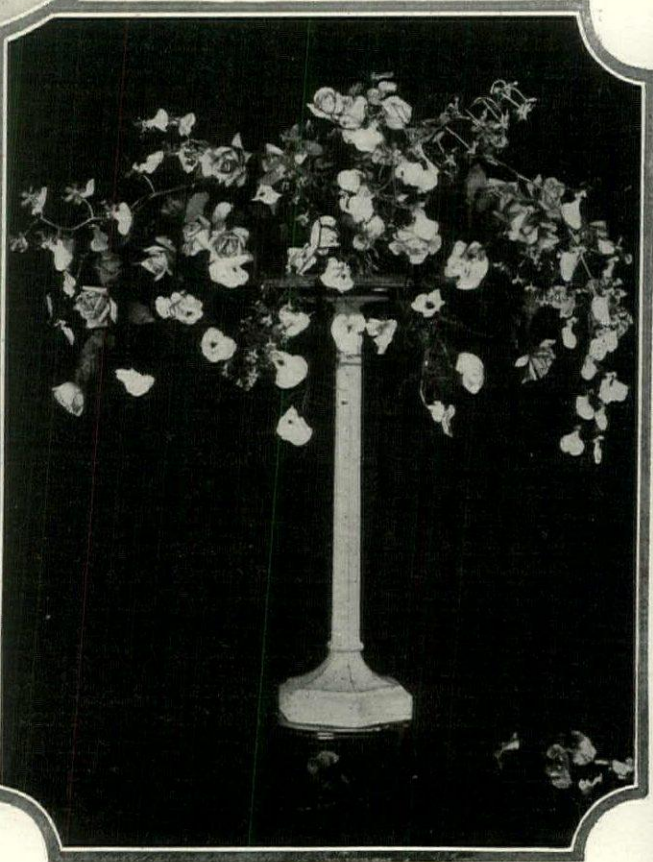
For a compote, but best for flowers is this bowl of Aurene glass. It is 10" wide. \$9. Flowers by Max Schling



In a low dish of Capri ware may be effectively arranged every sort of field and garden flower. It is 17" long and 5" high. \$12. Flowers by Stumpp

Cool and delicate and most pleasing in effect are long stemmed freesias, in an urn-like vase of creamy Wedgwood ware 8" high. \$12. Flowers by Stumpp

For a centerpiece of orchids, roses and feathery mimosa comes this plate of opaque white glass on a 24" decorated column. Tray 16" wide. \$10. Flowers by Schling



YOUR WOODLAND ANNEX

Co-operate with Nature to Restore Its Greatest Charm and Develop Its Latent Attractiveness—The Problems of Replanting, Locating Paths and Drives, and the Application of Intelligent Forestry Methods

SAMUEL J. RECORD

MANY owners of beautiful timberlands find their profit not in the value of the timber produced but in the joy of possession. Full possession means more than ownership; it involves appreciation of the natural beauties and the delight of intimate acquaintance with wild life in its various forms. But only when the woods are at their best does the greatest enjoyment come.

Different forests and different parts of the same forest convey distinct impressions; there is a different atmosphere or spirit that pervades them. The wide-spreading tree in the glade invites lazy repose in its shade or conjures up visions of a picnic. The open broad-leaf stands with their abundant flowering shrubs, and the vines with their bird and bee and butterfly associates have an air of cheerfulness and industry. The maturated hardwoods impress with their grandeur and quiet gladness. The towering pines, spruces, firs and hemlocks are more somber and silent; there is a general absence of birds and other wild life.

WORK IN SYMPATHY WITH NATURE

But too many of the woodlands in this country are mere tattered remnants of the virgin forest which have survived the woodsman's axe and the ravages of fire and flood. Left alone and unhindered, Nature would in time restore her handiwork. For those who can wait, this method is the simplest. But even then fire must be prevented, grazing and browsing animals excluded, and vandals warned away.

Nature left to her own designs is slow and prodigal. It is here that opportunity is afforded man to assist, to direct the natural energies in such a way that delightful results can be quickly attained. The better the final result the less will it reveal the guiding hand, the less the appearance of artificiality and formality.

If you would restore to your woodland its lost beauty or develop to the full its latent possibilities you



If you would develop all your woodland's latent possibilities, you must work in harmony with nature. The materials are at hand in the native flowers, shrubs and trees, as here in this California forest where lupines throng beneath the towering evergreens

must work in sympathy with Nature, must make acquaintance with her material and her methods. The materials are at hand in the native flowers, shrubs, vines and trees. Reserve the exotics for the lawn and home garden, if you will, but keep them out of the wild garden if you would not spoil its naturalness. There is no need to seek afar for materials, for indigenous to every region is a wealth of forest flora that requires only selection and adaptation to site and surroundings to produce splendid results.

SELECTIONS FOR REPLANTING

Proper selection involves acquaintance with the characteristics and requirements of each plant to be used. If you do not already know these traits, careful observation for a season will reveal them to you. One does not need to be a botanist or even to know the names of the different plants in order to see their beauties

and learn their whims. You will find that some shrubs and trees are distinctive because of their mass of springtime bloom. Such are the flowering dogwood, the shadbush, hawthorns, wild plums, elders, rhododendron, buckeye, catalpa, and the black and clammy locusts. Others like the wahoo or burning-bush, some of the dogwoods, the sumacs, mountain ash, part-ridge-berry, wintergreen, and the clambering bitter-sweet are prized because of the fruit which adorns them in the fall and winter. The witch-hazel is interesting on account of its autumn flowering, and the pussy willow because its catkins are harbingers of spring. Many owe their charm to the color of their foliage during the growing season as well as in autumn. Still others command attention because of the striking beauty of their stems or bark or the peculiar pattern of their branches.

It is important to know well the shrubs, the vines, and the small trees, for they are plastic materials out of which delightful effects can be molded. It is not enough, however, to know merely how they look; one must seek further and find what

ON JANUARY 3rd a subscriber to *House & Garden* wrote to us asking for information on how he could beautify his woods. He had several hundred acres at Lenox, Mass., with a large staff of men to take care of it. But he wrote us. We referred the letter to Mr. Record of the Yale Forestry School. The answer is this article. It applies to one acre of woods as well as to this subscriber's hundreds. It also is an example of the *House & Garden* Readers' Service. Have you ever put your individual problems up to *House & Garden*? Why not give it a try?

each requires for its best development. Some grow only in the open, where there is abundant sunlight; others fringe the woods or dot its openings, while still others seek the seclusion of the shade. The deep shade lovers are less plentiful than the others, but all the greater the importance that attaches to finding them. The ground hemlock or yew, the flowering dogwood, the laurel and rhododendron, and some azaleas come to mind as dwellers in the deep woods.

Some plants prefer the sphagnum bog or skirt its edges. Here in the acid muck one finds the tamarack and black spruce, the high-bush blueberry, the button-ball, the cranberry, the bilberry, and the swamp laurel. The alders, willows, elders, and an innumerable host of others crowd the banks of streams or revel in the rich, moist bottomlands, while in the marshy meadow the meadow-sweet, steple-bush and iris abound. On the drier sites and sandy places are blueberries, huckleberries, sumac, sweet fern, bayberry, sand cherry, the dwarf rose and the kinikinic. The lists, which vary with each locality, might be extended indefinitely, but those mentioned will suffice to call attention to the wealth of material at hand with which to conduct the restoration of abused woodlands. Some plants are much more exacting in their requirements than others, but even the less exacting have their preference, which it is wise to know and respect if you would attain the best results.

WHERE TO USE THEM

There are many places in the woodland where shrubs and



Often the wild azalea is the first choice among the flowering natural shrubs, especially in fairly open woods where low-growing masses are desirable to cover the otherwise rather bare ground. In spring its blooms are surpassingly beautiful

small trees and vines may be encouraged or introduced to advantage. They serve to unite the high woods with the fields outside or the meadows, glades, pools and roads within. They serve as appropriate borders for streams and ponds or cover whole slopes. What more delightful picture than a steep hillside abloom with rhododendron in a setting of deep green? What more intimately pleasing than a blossoming hawthorn, or wild plum, or flowering dogwood standing sentinel-like in some natural gateway of the forest? Or a beautiful elm standing apart with a wealth of vines clinging to its bole, vines like the Virginia creeper, whose autumnal coloring is so wonderful?

One of the charms of the forest is its mystery. Partial concealment and beauties hinted at entice one from the beaten paths to explore what lies beyond. The open woods which one can see through at a glance, such as so many of our unromantic woodlots are, leave nothing to the imagination. The proper disposal of shrubbery is the solution; it is in this wise that it plays its most important rôle. But the work should not be done so thoroughly that a shrubbery border obscures everything, else its purpose is defeated.

Wherever conditions are favoring the natural forest teems with wild flowers—hepaticas, bloodroot, phlox, anemones, bluebells, columbine, violets, adder's-tongue, trillium, trailing arbutus, wintergreen, Solomon's seal, and a host of ferns. The list is long and varies, of course, with the region and site. Given a chance, those already present will multiply and others will gradually come in. Like many of the shrubs they show to best advantage in

(Continued on page 86)



(C) University of Illinois

Perhaps the finest blue flower of the spring woods is the American bluebell. Its sky-blue trumpets have a perfect foil in the pink buds. It is well adapted to restoration work, and where conditions are suitable is often used



The tall spears of gladiolus are always welcome in the garden

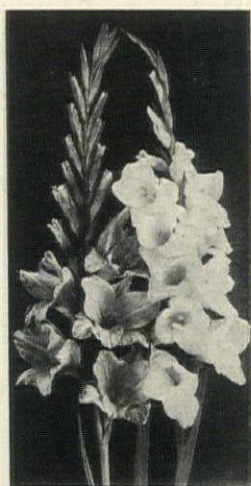
GROWING THE MODERN GLADIOLUS

New Sorts of an Old Flower That Are Worthy of Any Gardener's Attention—
Color Schemes and Growing Habits of Some of the Best Varieties

M. EMERSON MAIN

FOR the lover of beautiful flowers who has scant time to put in at cultivating them, the gladiolus of to-day is preëminently the flower to grow. Not only are they exquisitely beautiful; they are also exceedingly obliging. They will grow in almost any soil, though it is conceded that a

sandy soil suits them best, and in any place except extreme shade or among the roots of trees. A great many bulbs can be planted in a limited space if necessary, and there is endless variety to choose from in both low and high priced kinds. There are early and late bloomers, tall and dwarf growers, and by planting judiciously and in succession they may be had in bloom from late May to cutting frosts. It is quite possible to have them in bloom in the window garden during the winter months, the Colvillei



Pink Perfection and white Europa are among the most desirable modern sorts

being used mostly for that purpose, and there are at least three sorts to be had at twenty-five or thirty cents a dozen.

In planting out-of-doors, the only enemies to be feared are the cut-worm in the spring and the aster beetle in the fall. Cut-worm ravages can be guarded against by placing around each spear as it breaks ground a handful of sweetened bran with which a little Paris green has been mixed. If one has hens that run at large the bran may be used without the poison, for the worms prefer it to the plants. The aster beetle will have to be hand-picked and dropped into warm water and kerosene. He's a cunning chap, and if he hears or sees you coming he will have to be picked off the ground where he lies, feet up, "playing 'possum." But the



Niagara, an exquisite yellow glad, blooms profusely. Notice the promising buds on these stalks



Among the large salmon pinks, Mrs. Frank Pendleton should not be overlooked in the garden plan

beetle rarely troubles the plants unless they are near fields of asters or golden rod.

QUALITY BULBS

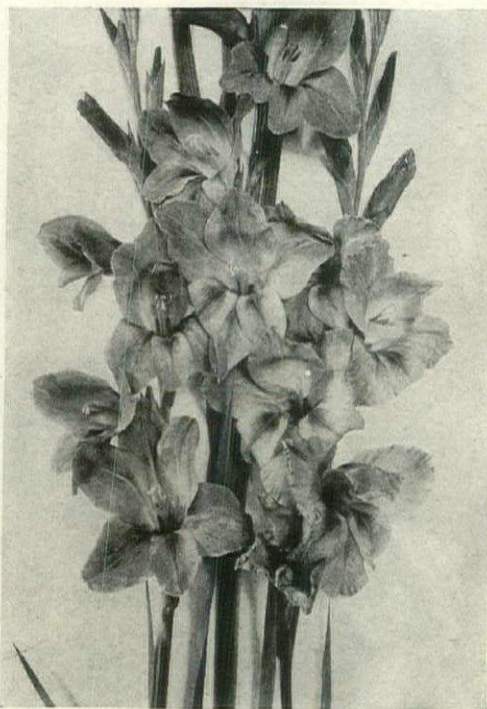
Bulbs, or corms, as some prefer to call them, should be bought as early in the season as possible, for then there is more certainty of getting what one wants, particularly if one wants the newer and scarcer kinds. Catalogues are out in February, as a rule, and many growers have them out in January. It is best to buy of a specialist, even if one gets but a few bulbs, for then one is sure of securing bulbs of quality at prices that are right. It is utterly useless to put money into worn-out bulbs or inferior stock and expect to get good results, nor is it advisable to get mixed sorts unless the very best quality is procured. If one is to put in valuable time caring for them it is best to get what is worth caring for, and something that will pay for growing on from the increase. Named sorts give the most satisfaction in the end, for once you start out on the road you get the "glad" fever.

We get fine flowers only from fine bulbs, and those two years old are generally considered to be the best. American stock is the stock to buy for results, and there are a number of reliable growers here in the East. Holland stock is frequently "homesick" and fails to flower the first year. If one buys from a reliable grower he may be sure he is getting good stock, but if cheap bulbs are purchased from dealers who buy their supplies the stock is quite likely to be Holland grown. Widespread dissemination of this sort of stock is partly responsible for lack of appreciation of the better sorts.

There are many, many people to-day who think the gladiolus is the same uninteresting red thing it was in their grandmothers' day. Say dahlia to them and they at once are alert, but mention gladiolus and their faces are a blank. A librarian to whom I took an armful remarked, "These are like the ones we read about, and never see." The varieties were such as Attraction, Princeps, Blanche, and Peace, none of them very costly, but all of them sorts that will be worth growing as long as the gladiolus is grown.

HOW TO PLANT

Bulbs may be planted as early in spring as the ground can be worked. I have planted from the second week in April, here in Connecticut. Plant at least 5" deep, 6" is better, unless in the case of very small bulbs. They may be planted as close as 4" or 5" apart in the row, and the rows run 6" or more apart. Where they are so closely planted the soil should be frequently stirred. Ground where they are to be planted should be spaded or plowed to a depth of 12" or more. If fertilizer from hen house or stable is to be used it should be spread on in the fall. Fresh manure must not come near the bulb. Chicken manure will heighten the coloring of a flower considerably; I have had Peace come almost pink after this treatment. Wood ashes are a good fertilizer, and I use them broadcast on the land, but for direct use by the bulb I give commercial fertilizer for potatoes, a handful scattered around the plant just before a rain and hoed in later, two or three times in the growing season. Weeds should be kept down if it is possible, but if the plants get a start before the weeds do they will



Flame-colored is perhaps the best adjective to describe the large, effective blooms of Mrs. Francis King

bulblets, take the bulb out carefully and cut off the top (pruning shears are fine for this job) within 1" or 2" of the bulb and leave it to dry a while in the sun before removing to whatever place you cure them in. Mine are placed on tables in a cellar with the windows out. After they are well dried off pack them in boxes or anything convenient to use and keep in a frost-proof place.

The bulblets used to give me heaps of trouble with their tardy germination until I thought out a method of getting the better of their hard shells. I mixed them with dirt, put them in boxes and soaked the dirt with hot water in March. By planting time in April the little black fellows had sprouted, and burst through their jackets. I planted them in trenches 3" deep and 6" wide, and they were up in a week, by the hundred. I'll never again go back to the old method of soaking them. From the good-sized bulblets of Peace I had stalks with six and eight blooms on them, and they kept coming on until cut by frost. I have never had such results from the old plan.

THE BEST VARIETIES

If one feels obliged to limit oneself to the best ten or twenty, the matter of varieties is a moot question. It can best be decided by studying diligently the various catalogues and then selecting the sorts personally preferred. In the list given below there are some especially good sorts named, and they are not so expensive that the flower-lover need hesitate at starting out with them. Most of them are good producers of bulblets.

Among the large-flowered sorts are—America, Attraction, Glory of Holland, Cardinal, Cracker Jack, George Paul, F. L. Oakley, Glory, I. S. Hendrickson, Intensity, Lizzie, Mrs. Francis King, Peace, Rosella.

Of the smaller flowered sorts the good old Brenchleyensis is one of the finest for massing where a blaze of color is wanted. Then we have other very desirable sorts in Independence, De Lamarck, Emma Thrusby, May, Madame Monneret, Mephistopheles, Hollandia, Baron Hulot, Klondyke and Canary Bird. All of these are low priced at hundred rates, and splendid of their kind.

(Continued on page 58)



America is superb with its handsome flowers of light pink glossed over with a lavender sheen, unexcelled for cutting

THE GENTLEMAN'S TERRIER

WILLIAMS
HAYNES



The typical thoroughbred has a long, lean head with small, V-shaped ears set well up



Cackler of Notts, an example of an earlier strain whose blood runs in modern champions.

A CENTURY ago the fox terrier was just what his name says he is. "Terrier," coined from the Latin *terra*, means literally a dog to go to earth, and a fox terrier is—or rather was, for he has lost his original job—a dog used to hunt foxes in their underground dens.

In those days fox hunting in England was not only good sport, but real hunting as well. Reynard was drawn as he is to-day; the hounds thrown on his trail; the hunters following in the thrilling 'cross country race. But the hounds and the horses were not so fast then, and the sly rascal was often able to make good his escape. So, lest he multiply to the extermination of all poultry, a sturdy little terrier, with instructions to bring him out dead or alive, was sent into his den after him.

But times and hunting customs changed. By careful selective breeding the speed of the foxhounds was increased, and the infusion of Arabian blood produced the lithe, fast, thoroughbred horse. The chunky little terrier was either trampled under foot, or, if he dodged the flying hoofs, he would be left far behind before half a dozen fields were crossed. He could no longer keep up with the hunt, so his friends set to work to follow the hound breeders' example and breed for speed. They succeeded only in developing a lank, greyhoundy sort of terrier, fast enough, but lacking in stamina and much too big to do the work that was formerly expected of him underground. Moreover, foxes were becoming less and less plentiful, and if one did hole up when hard pressed by the pack.



The fox terrier is an ideal pal for healthy, active children, for he is full of "pepper," intelligence and abounding high spirits

he was left safe in his haven, free to run another day. The fox terrier had lost his job.

But because he was an attractive dog, a splendid companion and useful, too, as a rat catcher and night watchman, he did not sink into oblivion. The mad 'cross country race, which the fox hunt had become, having been given up, fox terrier breeders settled down to develop a sensible type. They did not return to the extremely chunky original, but they did get away from the lanky wastrel which the craze for speed had created. They found the happy medium, approximately the fox terrier we know to-day, a lithe, clean-cut dog, but small enough to be a real terrier. Ever since that time, fifty odd years ago, the breed has been perennially popular.

HIS TRAITS AND POPULARITY

Nimble witted, game as a pebble, cheerful, affectionate, impudent sometimes, but always a plausible little rascal, the fox terrier is a dog after many men's hearts. His high spirits may bubble over mischievously on occasion and the wanderlust in his inquisitive soul may take him roaming sometimes; but he is so clever and so winning in his ways that it is quite impossible to resist him. He is just the best dog of all to win over the chronic dog-hater, for he embodies all the dog's proverbial devotion with a little more than his share of other dogs' intelligence, and he is decidedly good looking. He is a wholly delightful combination of the saucy, self-reliant cleverness of the street dog with the nice instincts and perfect carriage of

(Continued on page 88)



The whiskers and shaggy eyebrows of the wire give him a fascinating, quizzically alert expression of rough-and-readiness



A wholly delightful combination of cleverness and thoroughbred instincts



The smooth coated fox terrier is a little patrician, a clean-cut young gentleman of the beau monde, neat and trim

THE BEST SHRUBS FOR ALL PLACES

Their True Value in the Landscape Scheme of Various Grounds—Desirable Sorts and Best Arrangements for Boundaries, Masses and Single Specimen Effects

GRACE TABOR

THE ideal conception of domestic grounds, unless they be very small, indeed, and in a thickly populated section, regards them as space upon which growth both large and small has been pushed back in all directions, more or less irregularly, to provide opportunity for the buildings needed. In other words, they represent a glade cleared in the midst of forest growth, and both trees and shrubs should be planted along such general lines as are thus suggested.

This is not, of course, to say that only outer boundary planting should be made, but boundary planting is certainly the first that should be planned for and the first done. The lesser boundaries and special groups will be taken up in turn.

LAWN DIVISIONS

Immediately it becomes apparent that certain kinds of shrubs will be better suited than others to the rougher growth, if I may call it that, of outer boundaries. Some shrubs naturally duplicate more readily than others the effect which this clearing up process produces, though any shrubs chosen with discrimination and planted at a suitable age will grow into pleasing natural thickets. The looser, grosser types are undoubtedly closest the ideal.

Within the outer confines of the boundaries there come into existence, as soon as the buildings are built and walks laid out and constructed, a series of smaller units of ground space, each requiring its individual boundary treatment. Every division of lawn, for instance, is in itself a unit, a little glade within the greater clearing where the growth has again been pushed back. It is this conception of lawn division which permits the planting at the edges of driveways and walks, not the fact that driveways and walks require concealing. To conceal a walk, indeed, is not always desirable.

It is to be understood that the foregoing applies to large or fairly large plots of ground only, and not at all to small suburban areas. These latter would be manifestly absurd if treated in imitation of the forest glade. Landscape planting does not belong to the suburban plot, and no greater mistake can be made than to introduce natural effects or attempts at them within such circumscribed areas.

THE PURPOSE AND USE OF SHRUBS

The purposes of shrubbery are numerous, of course—the utilitarian purposes, if you please, as distinguished from the esthetic—but whatever may be the reason for planting a group at any given spot, arrange it as if its only purpose were the esthetic one, as if it were being planned solely to carry out this conception of a shrubbery glade. Failure to do this with a group planted as a screen, for example, may make its utili-



The lilac is associated with our earliest garden recollections, and we cannot exclude it from our plantings of to-day. Like old friends, it "wears well"

tarian purpose so apparent that it is a failure from the esthetic standpoint because it calls attention to the fact that it is hiding something instead of hiding it so successfully that no one suspects anything is behind it. Plant shrubs for screens, by all means, but never let the purpose of such a group be apparent. Select and arrange it so that the beholder recognizes in it simply a pleasing bit of the general frame of the space before it.

THEIR TRUE VALUE

The all-pervading fault in the use of shrubs, as we find them planted ordinarily, arises from a misconception of their true character. Rarely are they found in a state of nature growing as solitary specimens; nearly always they are thickets. And it is in thickets that they will always be most effective, although it is not by any means necessary to duplicate Nature's ways in order to produce a rich effect. In a natural growth we find one variety usually matted together in a tangle that cannot be reproduced save by Nature herself.

Thickets of enough varieties to ensure bloom for the longest period possible; varieties selected and arranged according to their possibilities of harmony; and finally all specimens small enough when they are planted to give them a chance to grow

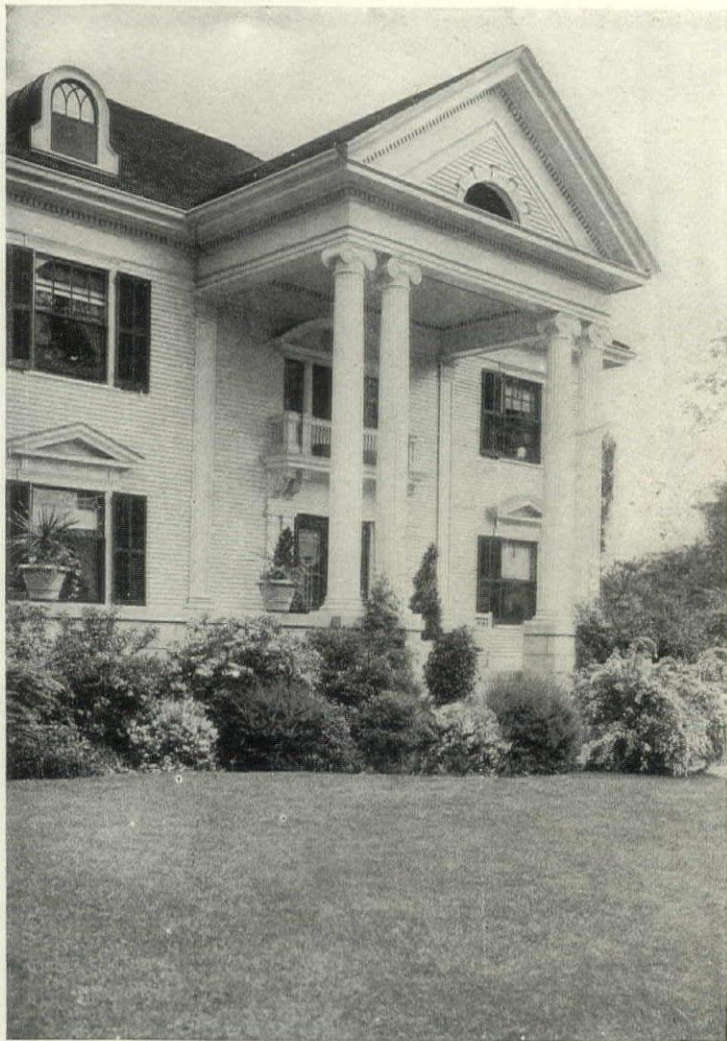
together and actually to form a thicket—these are the ideals which govern successful shrubberies. Never think of shrubs as individuals; always think of them and visualize them in the mass, unless you are confined to a typical suburban plot.

PLANTING ON SMALL PLACES

Suburban garden schemes are a thing quite of themselves. In design and execution they should follow lines distinct from those that guide larger plantings and schemes. In the very nature of things the suburban garden must be very formal in atmosphere and more severe in line, and attempt both of these without sacrificing one iota of charm and individuality. Garden making, wherever it may be carried on, is never the best that is possible, unless it is the most suitable.

Shrubs suitably planted on the suburban plot may very well be planted as individuals—and I would say that this is about the only place where they may be so planted except for those instances always developing at the deep points of the mass on large plantings where one or two are dropped away from it as islands drop off a promontory that juts into the sea. These can hardly be called specimens, however, for they are actually a part of the mass, although detached a bit from it.

Select for such specimens as are allowable for a plot 50' by 100', let us say, only those varieties that are distinguished for a pleasing habit of growth when planted by themselves.



Here is an example of variety in the foundation shrubbery planting, where six sorts are well selected and arranged to present a pleasing diversity



Though of very different effect from the planting in the adjoining photograph, this almost unbroken mass of Van Houtt's spiraea is as attractive

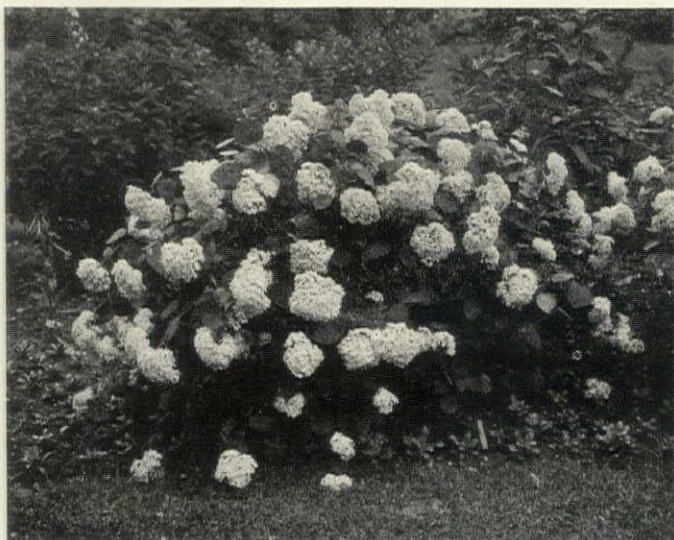
This is very important. Also it is important to select the very choicest from the point of bloom and foliage and winter effect as well. One of the delights of winter outdoors is the tracery of branches against the snow. Where only one shrub is to be used, or perhaps two or three, and these as specimens, the character of the branches' growth and their winter effect are as worth considering as the other features.

DESIRABLE SORTS

Where there is space for a spreading and rugged specimen, a rugosa rose is one of the most picturesque growths. Personally, my choice is the common variety in the white flowered form, the great starry blossoms gleaming brilliantly against rich foliage, and yielding a fragrance equal to that of any rose in the world. This is *Rosa rugosa alba* of the catalogues. Its height is about 6' when fully grown and its breadth very nearly the same, if it is allowed to follow its own devices.

The common barberry, *Berberis vulgaris*, is lovely at its full development, although it is not very showy in bloom. It makes up for this by having very decorative berries strung in masses along the tips of its arching branches; and if the green form is not as distinctive for such a specimen as you might wish, there is the purple variety, which is about the only plant of an abnormal color that is tolerable. Really, the purple barberry is a beautiful thing, purple in leaf and branch and berry.

Hydrangeas everyone knows. As specimen plants there is perhaps nothing equal to them for show, while they are in bloom. But they are sad looking affairs



The best use of hydrangeas is evidenced by single specimens or somewhat distant mass plantings of fifty or more bushes

at most other times and have nothing to recommend them as specimens except their monstrous flower heads. If one likes that sort of thing, it may be worth while to plant them. Perhaps their best use is in a somewhat distant mass planting where as many as fifty or more may be set.

Azaleas are as lovely a specimen as one may plant for bloom. Their habit does not render them particularly attractive at other times, but the fragrance of *Azalea aborescens*, together with its exquisite blush white flowers, goes a long way in its favor. This variety is the best for all-round appearance.

Particularly picturesque in growth is the Japanese snowball, *Viburnum plicatum*, which may be had in standard form as well as in the shrub, if a formal plant is wanted. *Viburnum tomentosum* is another beauty of this species. A variety especially recommended for specimen planting is *Viburnum tomentosum Mariesi*, which is of spreading habit. This should not, therefore, be used where such habit will be inappropriate; but where there is space, it is a very fine selection. Another fine specimen is the red chokeberry, *Pyrus* (or *Aronia*) *arbutifolia*, which also has red berries. This is not adapted to very small space.

SMALL TREES

Two others remain — almost, indeed, the two that should be put first in a list of specimen varieties, but which are left to the last because they classify as small trees rather than as shrubs. One is the fringe tree, *Chionanthus virginica*, which has particularly lovely foliage, dark and glossy and gracefully carried, and is literally buried in its curious white fringe blossoms in

(Continued on page 70)

THE BOOK'S THE THING

And After That You Need in Your Library Roomy Chairs, a Writing Table,
A Color Scheme to Quiet Your Nerves and a Fire to Make You Think

ABBOT McCLURE and H. D. EBERLEIN

A HOUSE without books is like a person without brains. Without a library or book room, a house, no matter how large or how sumptuously furnished, savors of provincial narrowness; with it, if it be really used—be it never so small and modest—there comes at once in the atmosphere a pervading suggestion of breadth and cosmopolitan urbanity. We may carry our simile still farther and say that just as it is offensive to have the fact of a person's mental equipment and erudition thrust gratuitously at every chance comer, so it is in exceedingly bad taste to have the library, either by its placing or arrangement, obtrude itself upon everyone entering the house. It should have a privacy and be regarded as one of the more intimate portions of the home. Incidentally, one may add that either the library or the small book room is apt to indicate the owner's personality to a marked degree.

THE ELEMENT OF COMFORT

The practical side of furnishing the book room presents some definite points that must be considered if it is to prove either



The bookcase in the corner started life as a closet. Then the door was taken off and shelves fastened in to fit the varying sizes of the books

comfortable or useful. In the first place, the books must be so shelved that they are all within reach and easy to get at. The cases must also be so set that there is light enough to see what books are on each shelf. In the second place, the furniture should be arranged with an eye to the maximum of informal and domestic comfort, and the seating furniture, such as chairs, settees, sofas and the like, ought not only to be put where their invitation to be seated is obvious and hospitable, but their shape and measurements should be carefully calculated to ensure the greatest physical ease. A chair that may answer admirably for short occupancy during a call in a drawing room may

become a means of veritable torture in a library. A library that is not comfortable to sit in and read, so comfortable that it is certain to be much used; a library where the books are so stowed away that it is inconvenient to get at them, is nothing but a book prison, and the space it occupies might as well be given over to storage purposes.

Whether there be a fair sized library or only a diminutive book room, the question of background is equally important.



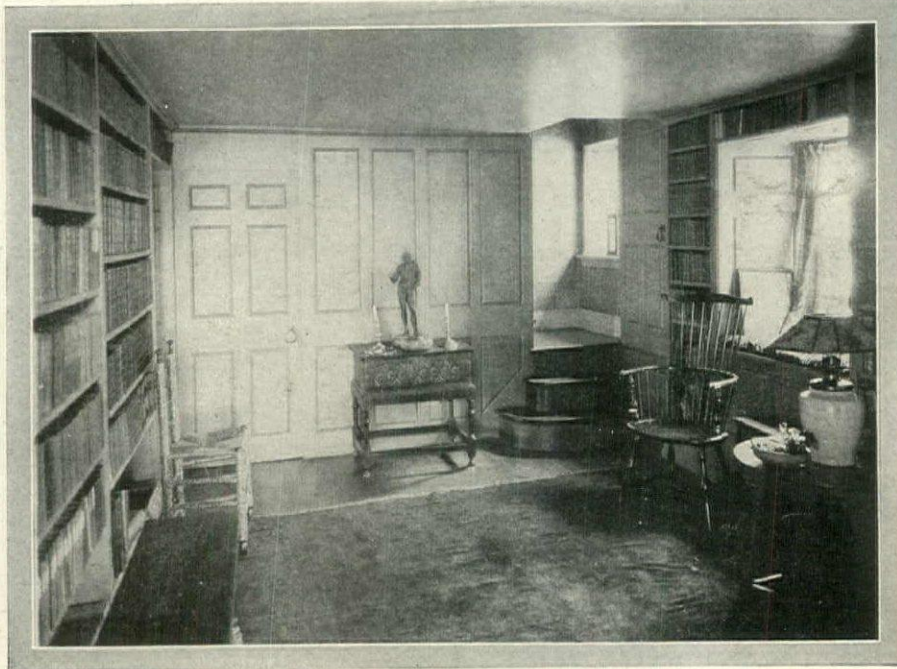
If books are worth keeping, they are worth keeping safe. This means safe from fire and erudite mice. The steel bookcase with adjustable shelves is one of the solutions. In this room, it has been designed to fit into the general finish of the room. Hewitt & Bottomley, architects

If one leans toward natural finished wood, panelling of oak, fumed chestnut, butternut, gum or sundry other woods may be appropriately employed. If light walls or light woodwork and paneling make a stronger appeal, they are equally suitable. It may be suggested, however, that unless abundant light pours in through ample sized windows, it will be best to have light walls and woodwork and so make up as far as possible for the natural deficiency, for book backs *en masse* are apt to assume a somber tone.

BOOKS AS DECORATIVE UNITS

Bookcases or shelves, either built-in or free standing, will naturally be the most conspicuous and most important feature of the furnishing. Book racks have a strongly decorative value of their own, and even when the plainest of shelves, quite devoid of any architectural pretense, form part of the room's fixed equipment, the wall space occupied by the books will not at all lack interest. It is for this reason that the library is one of the easiest rooms in the house to furnish tastefully if one exercises moderate discrimination in choosing what else to put in and, more important still, what to keep out.

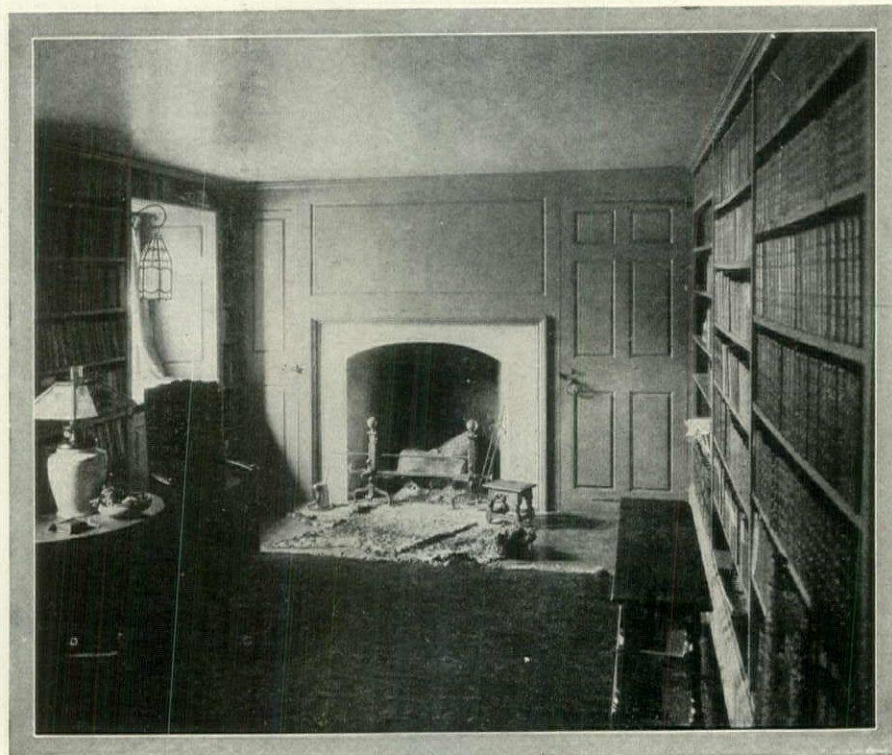
Permanent bookcases and shelves may be given a considerable degree of decorative character of an architectural sort which enhances their furnishing value, but, of course, the decorative possibilities of the free standing bookcase are much greater. In point of style it may be made to conform to any of the historic mobiliary types or it may be designed to meet some special wish of the owner. There is also wide liberty of choice in the color and kind of wood, the carved or moulded ornament and any other sort of decoration that may be desired. The free standing bookcase, either in its composite form with writing accommodations or in its single rôle as a book receptacle, permits more flexibility in furniture arrangement and occasional change of placement. It fits equally well into either a formal or an informal scheme. To be



The open built-in bookcase affords an intimacy with the books, and it collects dust—and most book lovers like to tunk the dust off their books. Glass covers, however, are safer for precious volumes, and the modern unit system of bookcases lends itself to excellent arrangement



A picture, a length of rich fabric, a pair of gingerjars—and you have sufficient mantel garniture for the small book room. Edmund B. Gilchrist, architect



This and the picture above constitute the two views of a country house library in which are included all the desirable features of comfort and utility. Mellor & Meigs, architects

seen to advantage, however, and to allow space enough for other furniture, three or four free standing bookcases need a fairly large room. When the book room is small, it is, therefore, better to have fixed shelves which are more economical of space and permit adequate furnishing without a sense of crowding.

SPACING THE SHELVES

Whether fixed or free standing bookcases are used, certain considerations for the sake of convenience ought to be taken into account. First is the spacing of the shelves. This must be gauged by the ordinary sizes of books. There should be an inch between the tops of books and the bot-

tom of the shelf above them. Including this inch of free space, make allowance for 13" for small folios and quartos, 10½" for octavos (this includes large octavos) and 9" for duodecimos. If possible, have adjustable shelves; if not, the foregoing measurements will be safe to follow. In depth the shelves should be from 8½" to 10". Nine inches is a good medium, unless folios have to be considered.

It will generally be found desirable to have at least some of the cases arranged so that the lower part, for about 2½' up from the floor, projects 3" or 4" beyond the upper part and is fitted with doors, thus making cupboards for maps, prints, large books and various other things that it is not convenient to have lying about loose. The bottom shelf of cupboards and bookcases ought to be raised on a plinth or base 3" or 4" above the floor.

Whether shelves shall be open or closed in with glazed doors must depend upon personal preference. There is something to be said in favor of either arrangement. It is best, though not always possible to have the shelves no higher than one can comfortably reach while standing on the floor. For shelves that are built-in, an excellent height is 4½' to 5'. This leaves plenty of free wall space for pictures or any other wall decoration.

In selecting the rest of the furniture, remember to provide ade-
(Continued on page 72)



An Ipswich home in which lace was made in the early days and where it may still be seen to-day

EARLY LACE-MAKING IN AMERICA

Which is a Phase of Colonial Handicraft Neglected by Writers on That Subject—Also a Footnote on Hand-woven Bed Quilts

MABEL F. BAINBRIDGE

IPSWICH, situated on the Massachusetts coast some thirty miles north of Boston, is the one place in the United States where in the early days bobbin or pillow lace makers settled. That they came from the Midland counties north of London is proven both by the town records and by the kind of lace which they made, a lace peculiar to that district.

Their hands were empty of implements to ply their craft, but were skilled as are only the hands of generations of lace makers. Nothing thwarted, they made their own "pillows," the sort known as a bolster pillow. Lacemakers' pillows of this type were some 12" long by 25" in circumference. These cylindrical pillows the early Ipswich lacemakers stuffed with hay, pounded very hard, using a heavy hand-woven linen as a covering. The upper part of a stocking was slipped over the pillow to keep it clean. The homespun covering and the stocking were gathered at the ends, but not completely closing them, as openings were always left to facilitate turning the muff-like pillows. The more fastidious lacemakers pressed sweet-scented herbs into the ends of the cases. The pillow, when not in use, rested in a basket which kept it from rolling, as will be seen in one of the accompanying illustrations, which shows a lacemaker's pillow resting in an old Malay measuring basket. This pillow, according to extant records, was used by Lydia Lord Lakeman who was born in 1781. On it lie some of the old parchment lace patterns, and the pins used in making the lace are rusted with age. A little bag was pinned on the back of the pillow to hold the lace as it was finished and a cover of bright printed Indian cotton was always thrown over all the work.

THE IPSWICH BOBBINS

In the Midland Counties, the English home of the Ipswich settlers in Massachusetts, the bobbins were distinctive and very decorative. They were made of bone or wood prettily carved and often inlaid with silver or pewter, and had one feature absolutely unique—bright beads hung from their ends. Ardent youths carved them for their sweethearts, and the history of the bobbins on a single pillow would fill a small volume. Apparently our forefathers did not bring any bobbins with them, evidently

adhering to the Puritan principles which, in guiding them to our shores, disdained provision for "finery." Later they fashioned for themselves simple bobbins of bamboo. These were, as one may see in the illustration, bamboo of varying sizes, cut about 5" long, with a wide groove whittled out below the head to hold the thread. These bobbins make the most fascinating clicking sound imaginable as they are "thrown." They are hollow, and being of different sizes have many notes.

Nowhere in the world, so far as the writer knows, is another bamboo bobbin to be found. If we recall that Ipswich was one of our important ports in those days, and that the old town was filled with Oriental treasures brought back by sea captains, we can understand how our lacemakers were able to get bamboo as a material for bobbin-making. It doubtless came with the exquisite china, embroideries, carved ivories, etc., which sailor husbands and lovers brought to their dear ones after the return voyages from the Orient.

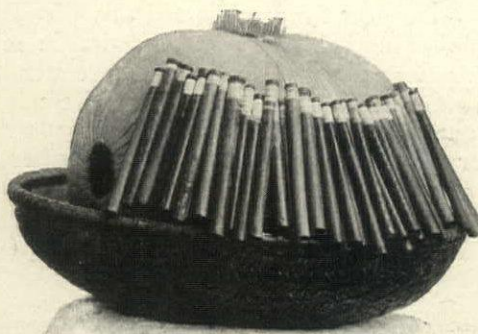
THE PATTERNS

The original lace patterns or "prickings" as they are called, I have reason to believe, came from England. They are of sheepskin parchment such as is used for drumheads. Sometimes a "pricking" is made from a single strip of parchment and again the long strip is made by piecing every few inches. I have seen writing and figures on patterns showing that old deeds were utilized for them. The holes pricked in the pattern directed the placing of the pins which were to make the pattern. The two rows of pin holes in the pricking here illustrated indicate that that pattern was made in two widths. Note also that there were no pins to hold the mesh; that seems, to the ordinary modern lacemakers, an almost impossible method. The pins used were fine lacemakers' pins. In early days, of course,

such pins were all handheaded.

HOW THE LACE WAS MADE

The method of making lace, as followed by the early lacemakers in America, was that followed, generally speaking, everywhere in making bobbin lace, whether made in the native wilderness of Colonial Massachusetts or in the doorway of



A bobbin lace pillow used by Lydia Lakeman in the late 18th Century, resting in its basket in which it was kept when not in use

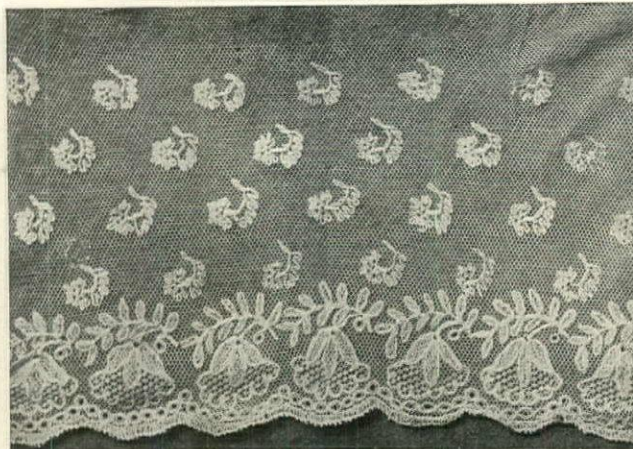
Oxfordshire's most ancient edifice. The pillow having been stuffed and pounded hard, a parchment pricking was pinned around the center. If possible the pattern was joined so that it could be worked continuously. The bobbins were wound with the thread, generally by hand, although there were reels in which a bobbin could be inserted and a handle turned to facilitate a tedious process. A slip knot was then tied so that the bobbin did not unwind as it hung from the pillow, but so tied that the thread could be lengthened by pulling the bobbin. The required number of threads were tied to a few pins, and the weaving was begun. The stitch was simply an over and under weaving with extra twists to form the meshes. After every stitch a pin was set, the position of the pin, as stated above, determining the pattern.

THE IPSWICH LACE

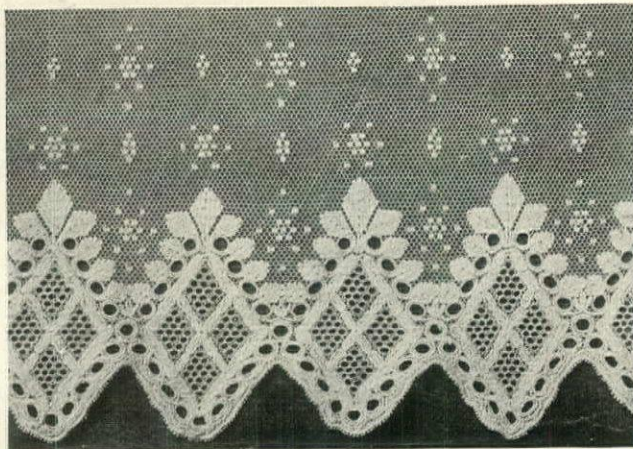
The heavy outline thread, which is a characteristic of Buckinghamshire lace, the kind that was made in Ipswich, is a loosely-twisted flax. Some thread of this sort that was never used is in the writer's possession, and it shows plainly the irregularity of a softly twisted hand-spun thread. The early settlers were obliged to depend on home spinning. In 1656, records tell us, "The Selectmen are to divide their towns into classes of five, six and ten, and appoint a class leader, for the purpose of spinning. Each family, which can furnish one spinner, shall spin thirty weeks in a year, three pounds of linen, cotton and woolen, monthly. . . . The commons are to be cleared for sheep. The seed of hemp and flax is to be saved." This proves beyond doubt that the early Ipswich lacemakers made their own thread.

The early Ipswich lace was always made in stripes, never in set figures. Although there are some wide pieces in existence, most of the lace is narrow. This lace was extensively used on baby clothes, and later lace of this sort was known to our grandmothers as "English thread lace." If you are fortunate enough to possess a garret, seek out the dear little linen shirts which your great-grandmother made for her babies, and more than likely the handmade lace which trims them, if not made in Ipswich, is the same type of lace, exquisite, dainty and yet durable. A christening dress will almost surely be ornamented with such lace, and caps both for the babies and the grandmothers were finished with more or less elaborate edges that are most interesting.

The lacemakers' pins were used over and over again. As



A piece of early darned net lace. The pattern, which was taken from bobbin lace, was darned in after the net was made



This and the piece above, both darned net, were made in 1827. The work is similar to that made in Ireland and called Limerick lace, and in Italy and called Sicilian

a laceworker progresses she takes out the first set of pins, and the lace held by these pins falls finished into the little India cotton bag. Bobbin lace used to be commonly known in England as bone lace, and although the reason has never been definitely ascertained, it has been suggested that the use of small fish bones to hold the pattern, in the days when pins were very dear and almost unprocureable, may account for the name.

UNIONS IN THOSE DAYS?

A certain Aunt Mollie Caldwell (so history tells us) collected the Ipswich workers' lace once a week and took it to Boston by stage coach, railways being unknown; in exchange she brought back French calico, sugar, tea, coffee, etc., and surreptitiously little packages of most-desired snuff. It wasn't alone the lacemakers who were not paid in currency, for the town records as far back as 1640 read that "No persons are compelled to pay future debts in cash, but corn, cattle, fish and other articles." Mrs. Caldwell not only disposed of the workers' lace, but was clever enough to buy a bit from a peddler, and prick off a pattern from it and give it to one of the workers to reproduce.

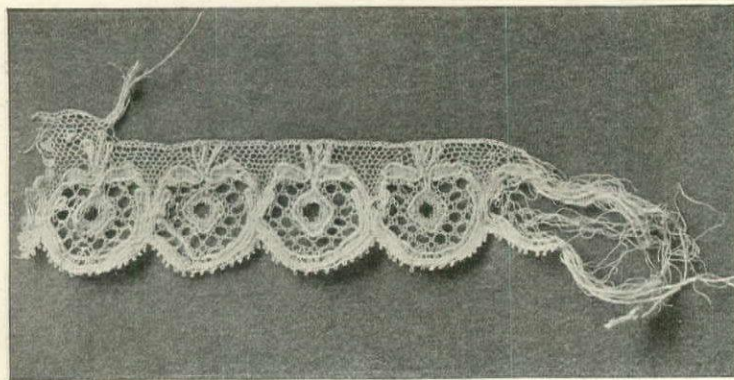
Felt's History, published in 1834, states that "Lace of thread and silk was made in large quantities, and for a long period by girls and women. . . . Black as well as white lace was manufactured of various widths, qualities

and prices. The females of almost every family would pass their leisure hours in such employment. In 1790 no less than 41,979 yards were made here annually."

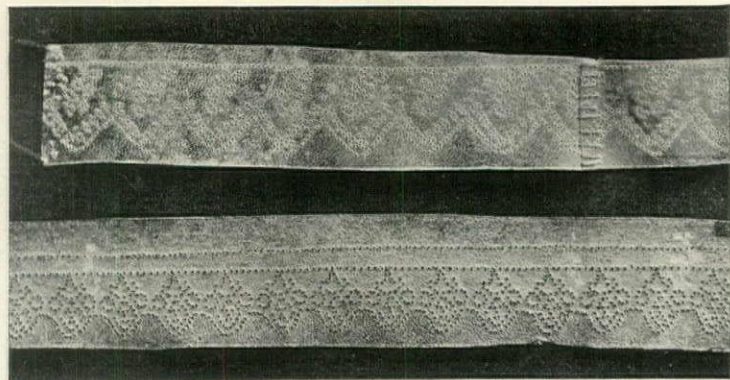
THE COMING OF MACHINES

Let us go back a little that we may understand the sudden appearance of an entirely different sort of lace. In England, about 1809, a Mr. Heathcoat perfected a machine that made a very good hexagonal mesh, so that a yard of yard-wide net could be woven in the time it formerly took to make six inches of inch wide net on a pillow. The pillow lacemakers naturally resented this very keenly, so they banded themselves together and took drastic measures to destroy these machines. So much damage was actually done that many operators were driven out of employment, and in 1818 to 1822 emigrated to our Massachusetts Ipswich to be relieved of the constant annoyance they suffered in Nottingham and several other cities. The English government, realizing this danger to her textile industries, if these skilled workmen could get machines, put

(Continued on page 64)



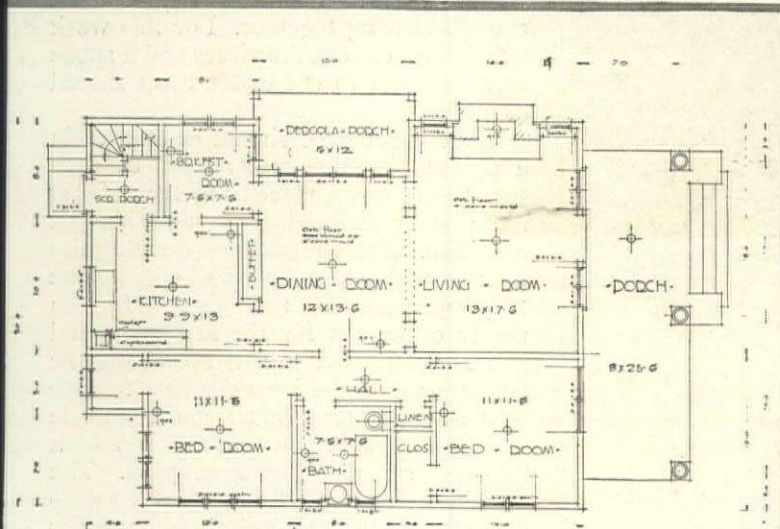
A sample of the bobbin lace made in Ipswich about 1880



Parchment patterns on which the bobbin lace was made



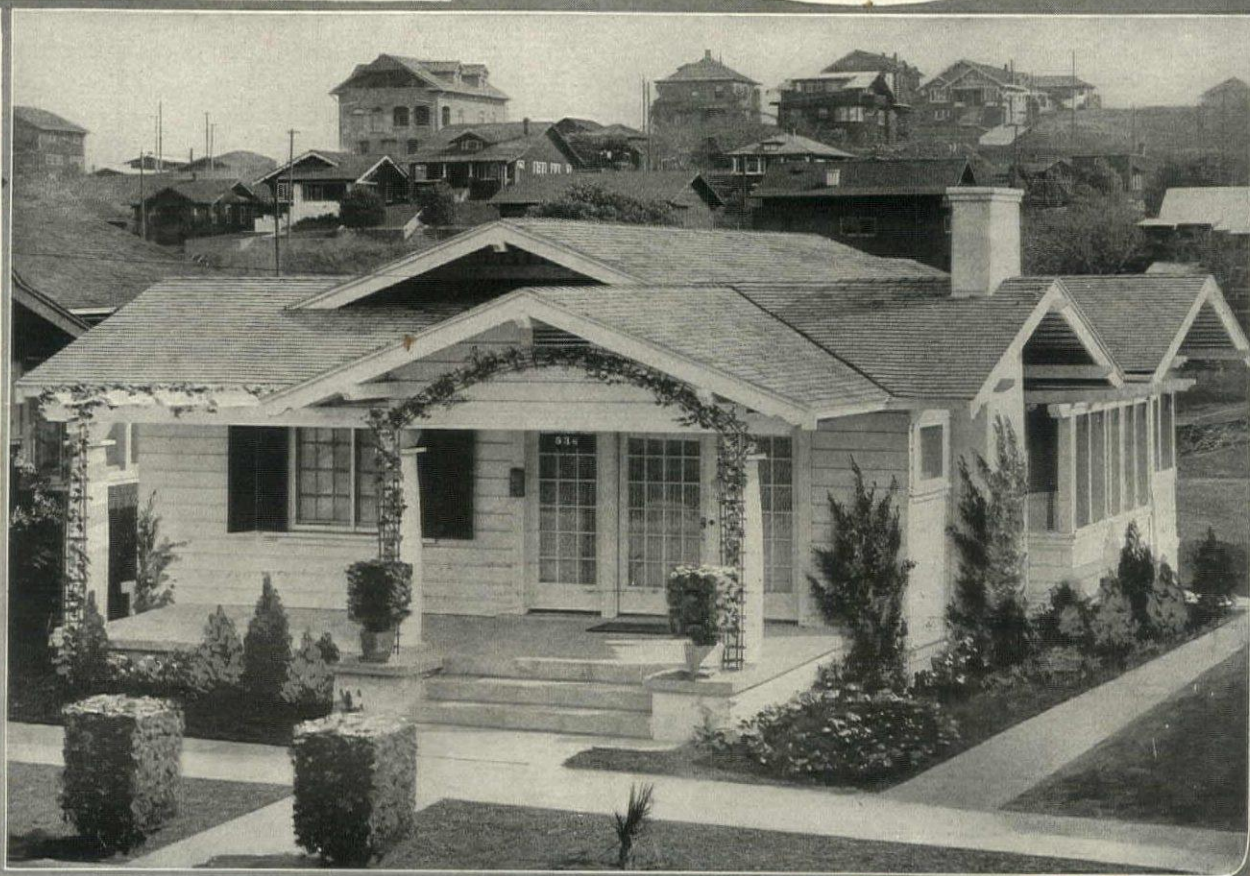
Grey cobblestones, dark red clinker brick and cream-tinted stucco comprise the masonry. Dark brown stained shakes cover the walls and shingles painted a soft green shade cover the roofing, while the trimming is done in creamy white. The main front door opens directly into the living-room, but from the veranda also lead two pairs of French doors—one into the den and the other into the music-room. These three rooms, occupying the front of the house, are connected by broad colonnade openings. Approximate cost, \$3,500. F. A. Brown, architect.



TWO BUNGALOWS INTERESTING LINES AND MODERATE COST

Built in California but
Ideal for Summer Homes
Anywhere

Whoever contemplates building a bungalow will find the design here shown well worth consideration, for this is indeed a charming little six-room home. Its chimney and three veranda pillars are of white cement, and the siding and all finishing timbers are painted white, while the shingled roof is light grey. A veranda, partly roofed and partly covered with pergola beams, extends across the front, and on one side is a screened-in pergola porch, reasonably secluded and affording an excellent outdoor retreat. The rooms are living-room, dining-room, breakfast-room, kitchen, two bedrooms and the bath, and the usual rear screened porch. Approximate cost \$3,000. R. O. Young, architect



MAKING NEW GARDENS

s and Making Them Produce This Season—Flowers,
all Fruits in Place of Stones and Cluttering Weeds

F. F. ROCKWELL



First of all the boundaries of the new garden must be laid out with a good line and marker

appearances
The most
experienced gardener can never guaran-
success; but there are some simple
principles and rules which even the en-
thusiastic beginner, with all his prover-
bial luck, must follow to make his
chances of success probable. It is the
everyday essentials of gardening which
are given in the following paragraphs,
and he who ignores any of them is in-
viting disappointment if not failure.

Where a choice is to be had, a slight elevation is preferable for the garden, because both the air drainage and the water drainage will be better than on any adjacent low-lying ground, and also because the garden will show up to better advantage. This is especially important in the growing of roses. If the garden is to be a thing of beauty in itself, and not merely a place in which to grow beautiful flowers, its situation should be selected with the idea of having it visible from the porch, living-room, or dining-room if possible. If the garden is wanted to be a part of the home, instead of a show place, large or small, the point of visual approach should be from the house.

The garden site should be chosen also for convenience. This is true whether you expect to grow sweet peas or garden peas, sweet corn or corn flowers—that is, if you expect to do your own work and really enjoy your garden. Many people have the feeling that the vegetable garden should be somewhere entirely out of sight. This is a great mistake. With very little additional trouble it can be made just as attractive as any garden on the place. It is no ruling of nature that keeps flowers out of the vegetable garden.

To take up the practical details of making a new garden, one of two conditions is likely to be found existing where it is to be established: an old, tough sod where grass has grown for years—such as part of a lawn, or the edges of a hay-field, or just wild grass—or the bare, uninviting grounds about the newly built house. The former is preferable.

STARTING THE VEGETABLE GARDEN

As the vegetable garden is usually the first to be made in the spring, we will consider that first. If there is a tangled mulch of dead grass and weeds over the surface, burn it off as clean as possible before you begin operations. Your scientific garden friend may inform you that this is a waste of potential humus in the soil; it is, but as you have the work to do and will also have the weeding to do you can afford to

humor him and go on with the work.

When the burning is finished, spread on your manure, first, of course, having marked off the size of your prospective garden plot, being careful to get the corners at true right angles. If you can't trust your eye, measure with the diagonals, which should be equal. Have the piece plowed, if possible. It is best the first season to use a garden of this kind only for potatoes, corn, vine crops and things of that kind. If it is necessary to prepare it for all your garden vegetables, and if the sod is so thick or the plowman so poor that he cannot get all the sod under, it will pay you to resort to the process of "skinning" it or working it up. Start along one edge and take off the sod in squares of a convenient size to handle and just thick enough to hang together. For this work an edger to cut out the pieces and a spade or a sod tool to cut under them should be used.

The sod removed should be stacked in a square pile, the grassy sides of each two layers being placed together. Start the pile on a level place and bind it carefully. For convenience double piles may be made at the ends and edges. The sod roots left in the soil will furnish plenty of humus for the first year, and this material after it rots up during the summer will make ideal compost for use in the frames, greenhouse, gardens made in less favorable places, or to put back into the same garden next year. The

ground should be worked, whether plowed or spaded, as deep as possible—that is, down to the subsoil unless the latter is 10" or 12" below the surface. In case the subsoil is only a few inches below the surface, plow or spade up 1" or so of it, mixing it thoroughly with the other soil. Such soil should be worked about 1" deeper each year until it is 6" or 8" deep. The addition of some manure and any other available organic matter is particularly beneficial to shallow soil. Very light, sandy soil should be worked rather shallow. If the subsoil also is sandy, it will pay you to give the garden a good rolling after it is manured or plowed or spaded, before preparing it for planting. A new garden always needs and should have more manure than a garden that has been used for several years; but it is of particular importance, also, that the manure used should be old and well rotted.

THE FLOWER GARDEN

The flower garden generally has to be made where it is wanted rather than where the soil may be best. Remove the sod, if any, in the same way as described above. If the soil is poor, bring in good soil to fill and build up the beds. If necessary, take out and remove part of the poor soil from the beds, adding the new. The beds should not be elevated more than 3" or 4" above the surface after they are made. Where the new flower gardens are to be made on an already well established lawn, so much of this work will not be necessary; but if the lawn surface is also "built," it will probably not be deep enough, and 2" or 3" more of the soil must be added to the bed. The various annual plants and flowers do not require as deep a soil as the perennials, and there is also the opportunity of enriching it thoroughly each season.

MAKING A PERENNIAL BED

The garden for hardy perennials is a permanent investment and it will pay to take care in making it. The best way to

prepare the beds is to excavate to a depth of at least 2', throwing the good soil to one side and the subsoil and gravel to the other. Break up the bottom with a pick, put in a 6" layer of cobbles, clean, hard cinders, coarse gravel or other drainage material, and over this soil thoroughly mixed with plenty of manure. Then finish off with 4" or 5" of clean, unmanured soil. This is the ideal bed, though many of the perennials will do well in poorer and shallower soil.

A very generous amount of the coarsest bone should be worked down into the soil, as many of the perennials spread so quickly that there will be little chance to get well below the surface after the first year or two of growth. Though a number of the perennials require particular conditions of soil in order to reach their most perfect development, the majority of them may be grown satisfactorily in the same border under the same conditions.

PLOTS FOR SMALL FRUITS

In preparing the garden plot for small fruits, cane fruits, and the shrubbery border, it is often a common practice merely to dig a hole for each plant, applying the manure or fertilizer locally and letting the soil between go with little or indifferent treatment. This is always a great mistake. If it is possible, have all the soil in the patch plowed or spaded up thoroughly and manured and enriched. Plants of this character, after the first season, will derive as much benefit from plant food added to the soil in between them as from that in the immediate vicinity. Besides this, their roots will spread much farther and faster in the soil that has been freshly prepared and contains some available plant food, so that the feeding capacity of the individual plants will be very greatly enlarged. These are points which should never be overlooked, for they have a very direct bearing on the future sustained success of the planting.

In the setting out of ornamental trees, fruit trees, hardy shrubs, single specimens and so forth, though it may not be practical to make more than a local preparation, dig out a hole several feet wide at the least, and for the large trees still wider. If the ground is heavy or the subsoil hard, a light



No old, worn-out soil can be expected to produce anything much more edible than two stone fences to the acre, unless you enrich it. See to it, therefore, that manure or other plant food is supplied

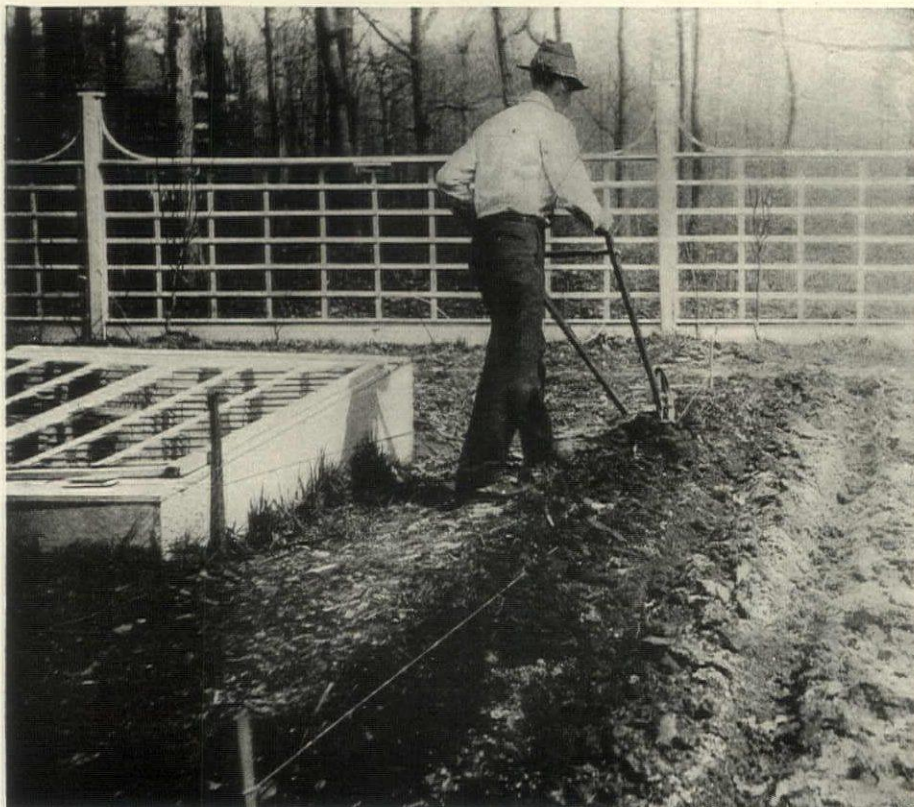
charge of dynamite will work wonders in loosening up and in making possible for the trees a rapid, vigorous growth.

PRE-PLANTING CARE

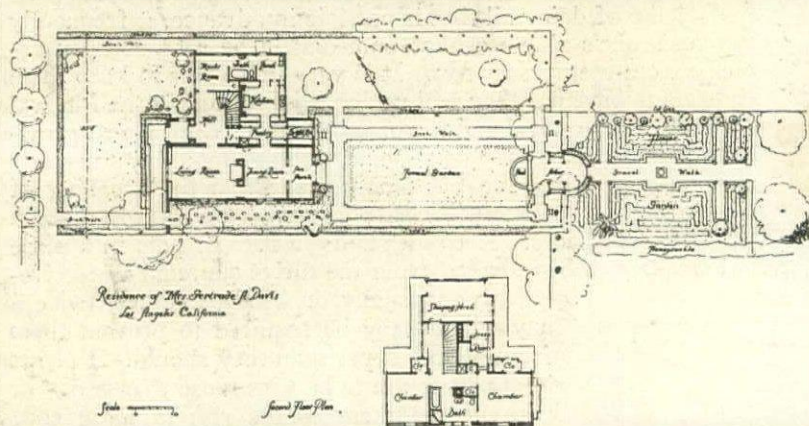
In spite of doing all that is possible in advance, it frequently happens one's plants cannot immediately be set out upon receipt from the nurseryman. It is very important to keep them in such a way that they will not be injured during the interval between their arrival and the planting time. Even plants growing in soil in flats may be seriously injured by a day's neglect; the mere shock of moving them around and the breaking of such roots as may have reached through to the soil often cause them to wilt badly. Keep all plants in flats or pots in a place where they will be shaded from the direct sun, and water frequently; in sunny or windy weather, twice a day will usually be required to prevent them from getting dryer than they should. If plants in clay pots are to be kept more than a day or two, plunge them to the rim in loose soil.

Plants that have been shipped from a distance should be opened up immediately, loosened up, if they have been pressed tightly together, and the roots examined; if they are beginning to get dry, give them as much water as they will readily absorb. This may be done by placing them temporarily in a shallow pan or tub and putting in a little water, or by saturating sphagnum moss similar to that packed around the roots and placing it close about them. Such plants should be kept in an airy shed or in a sheltered corner of the veranda, protected from the sun and wind.

Shrubs, small fruit and similar nursery stock shipped with little or no soil on the roots should be unpacked and "heeled in" as soon as received. Just dig a narrow trench, a foot or so deep, and bury the roots in moist, fine soil sufficiently deep to cover them; for convenience they are usually placed at an angle of 45° or so, close together. Plants that have been removed from the pots just before shipping and wrapped in paper to keep the root ball intact should be slipped into pots of similar size, adding a little fresh soil if necessary and in this way kept for a week or two if watered frequently enough.



The wheel-hoe is the garden cultivator's ablest ally. It accomplishes more in half an hour than all the forks, hoes and spades you could operate, and is primarily a saver of labor and back muscles



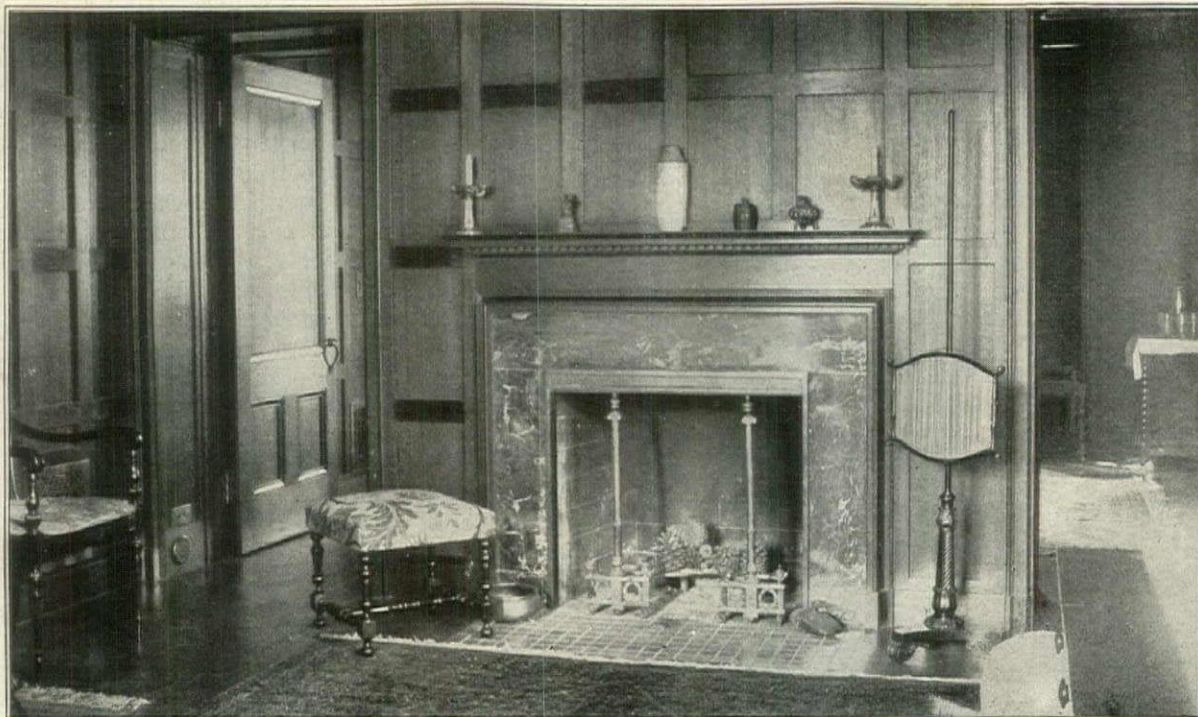
THE HOUSE AN ARCHITECT BUILT FOR HIMSELF

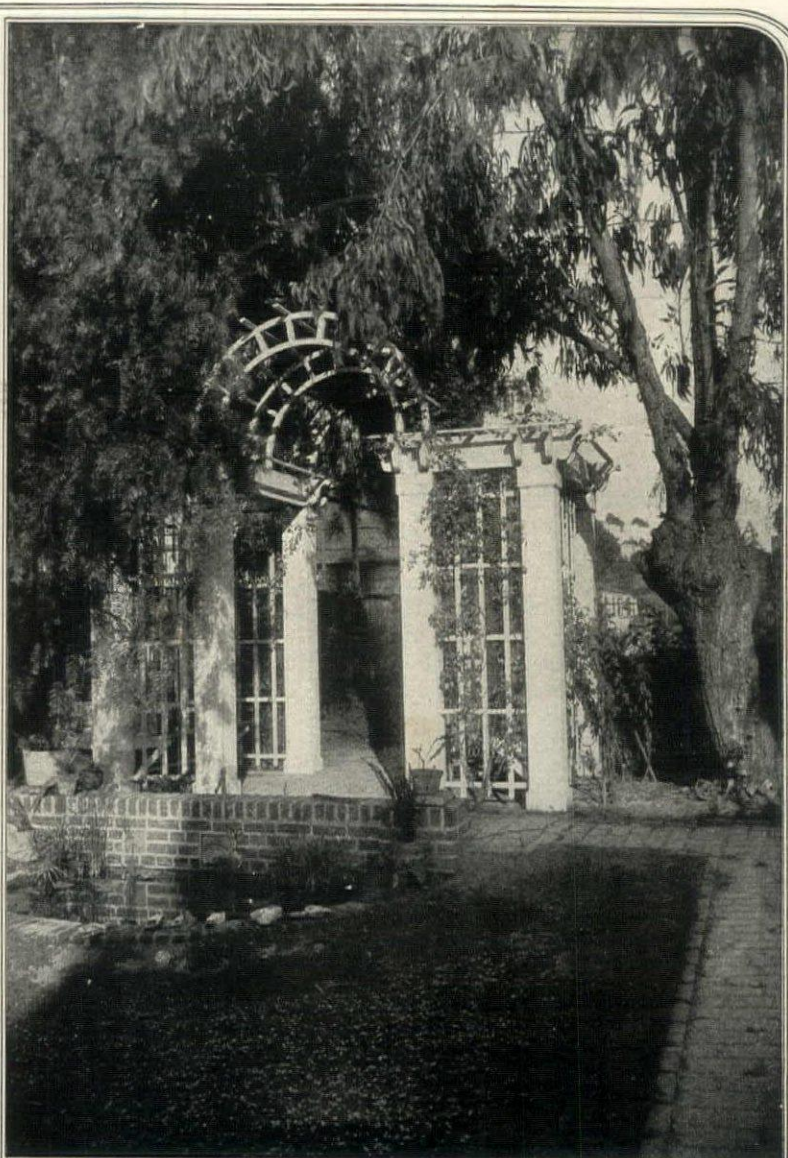
Being the Residence of Pierpont Davis, Esq.,
at Los Angeles, California

In the choice of a style and treatment the architect was governed by the picturesque country cottages in the garden cities of England, with the result that there is a close relation of the house to the grounds

One enters directly into the hall. From this door is a long vista through a hall and breakfast room, which has a window opening on the garden. At the right the door opens into the living-room

The living-room is consistently finished: the walls faced with mahogany panels, and the furniture chosen to fit that background; the fireplace of black and gold marble. The doors lead to the dining-room





A quiet paper, mahogany trim and the few pieces of furniture give the hallway the intimate domestic feeling so characteristic of English cottages. This excellent grouping might well be copied

Beyond the sun porch is a little formal garden ending in a pool and this arbor, built substantially with an arched roof and holding in its recesses two comfortable seats. The pool is bordered with brick

The door to the house at the other end of the formal garden is almost completely glass, affording plenty of sunlight within and a good view without. The window boxes and casements add to the intimacy

At either side of the house is a service gate, a simple treatment that makes it a part of the house itself. When grown with ramblers it will rival the other part of the property in its picturesqueness



EFFICIENCY STANDARDS FOR THE TOMATO PATCH

The New Method of Culture and the Results It Brings—Eliminating Waste by Proper Pruning and Training—The Best Sorts to Plant

ADOLPH KRUEH

NEARLY twenty per cent. of all tomatoes, which nature puts on the vines, go to waste. This is not the fault of the weather, nor the climate, nor the soil, but the fault of the methods now employed in growing the crop. True, a slight percentage of fruits will go to waste every year because of an over-supply of moisture or an early frost or an inherent disease of the plant. But that loss is small as compared with the waste due directly to cultivating methods.

THE PRACTICE OF STAKING AND PRUNING

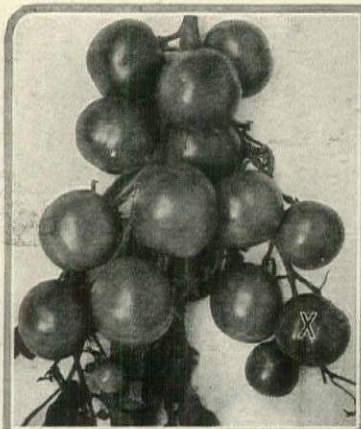
In countries offering the correct climatic conditions, the tomato plant thrives as a perennial. In South America we find it making an enormous growth, with vines trained over arbors, not unlike grape arbors with us. It is the inherent tendency of the tomato plant to grow, grow, grow vines at the expense of size and quantity of fruits. In studying ways to counteract this natural tendency of the tomato plant, gardeners found it to be a paying proposition to cut off or prune some of the superfluous foliage and branches. Soon it was discovered that a plant with two or three strong branches, well culti-

vated, would produce just as much fruit, pound for pound, as a plant with two or three times as many branches bearing a multitude of undersized specimens. Gradually, the practice became more general, especially in tomato growing sections. To-day two methods are widely employed, which do not differ in principle but simply in application. These two methods may be described as the "wire trellis" and the "individual stake" methods. Of the two, the latter proves to be more advantageous in the home garden, while the wire trellis method is the one to employ in field and market garden culture.

THE WIRE TRELLIS METHOD

Set stout fence posts about 20' apart in long, straight rows, with 3½' between the rows, so that horse-cultivation may be employed. Half way between every two posts, set a 4' or 5' stake of 1½" lumber. Then connect the posts with lines of 8 or 10 gauge wire, stapling these wires to the stakes as well,

which prevents the wires from sagging later in the season when they are loaded down with fruits. Five lines of wires, one above the other, 10" or 12" apart, (Continued on page 82)



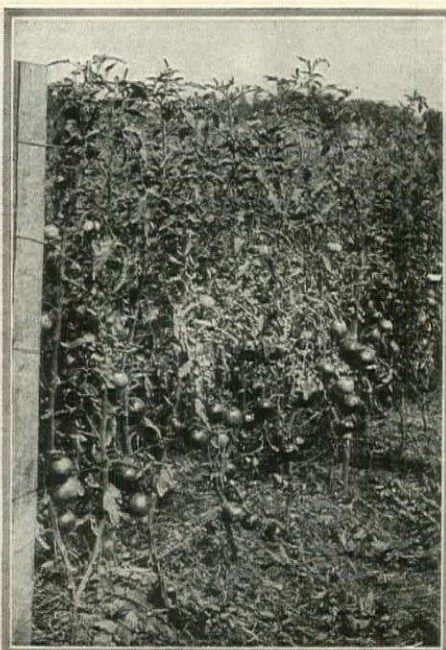
This is the sort of fruit the wire trellis method produces. A cluster of Comet, the only blemish being indicated by the cross



Especially in the garden where space is limited the individual stake method of growing tomatoes is strongly advised. Under favorable conditions thirty-six fruits to each plant are often produced by this essentially intensive system



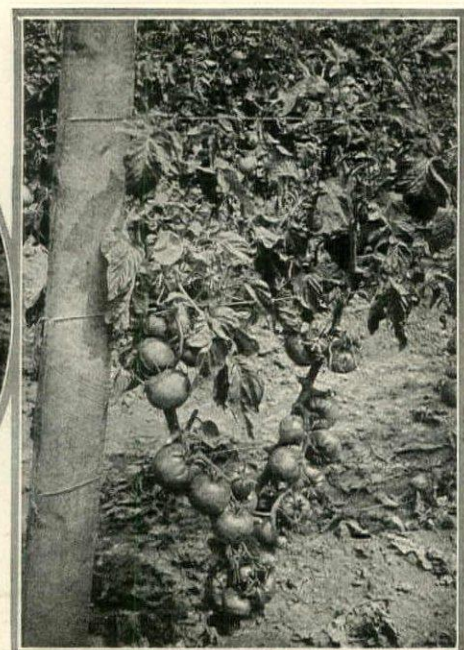
The old method, where the plants were practically unpruned and untrained, resulted in small sized and often imperfect fruit



For tomato culture on a larger scale the wire trellis plan is the best. It has many of the individual stake's real advantages



Prune the suckers at the base of the plants, thus conserving the vine's strength and throwing it into fruit production



Stout posts set 20' apart in the row support the lines of wire to which the vines are tied. Allow 12" to 18" between plants

A LITTLE PORTFOLIO OF GOOD INTERIORS

In these views of beautiful and unique rooms the reader will find many valuable suggestions for furnishing her own interiors. For information on the objects shown in these rooms, write the Shopping Service, HOUSE & GARDEN, 440 Fourth Avenue, New York



Photo by Tebbs

The day bed has become an almost indispensable adjunct to the boudoir. It is a comfortable piece of furniture and pleasing to look upon when upholstered in a gay fabric and piled high with an interesting assortment of pillows. This view is from the residence of Wm. H. Earhardt, Esq., New York City. Addison Mizner, architect



Photo by Tebbs

White walls and white woodwork, silver fixtures and mahogany furniture make a dining-room combination hard to excel. It gives a cheerful, clean atmosphere, and is especially adapted to Colonial interiors. Less silver on the sideboard in this instance would have been preferable. Nelson & Van Wageningen, architects

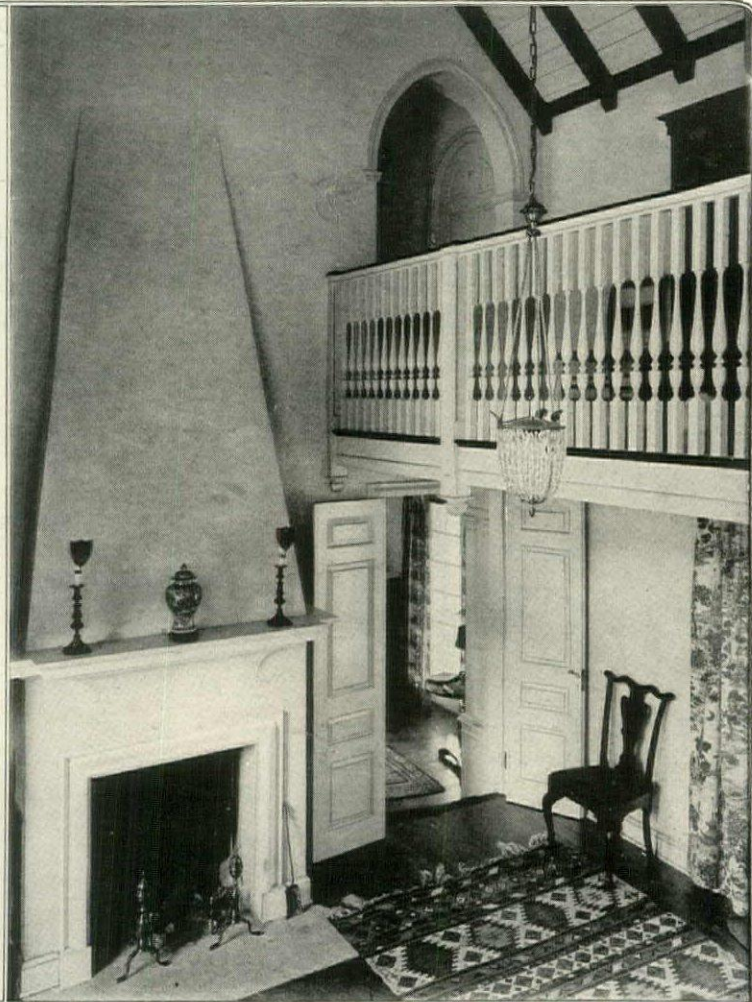


Draw this table back a foot or so, place between it and the fireplace a large overstuffed davenport, and you have an ideal arrangement for the library. As it is, the fire can be looked at, but not sat by, unless one draws up a chair. The davenport obviates this

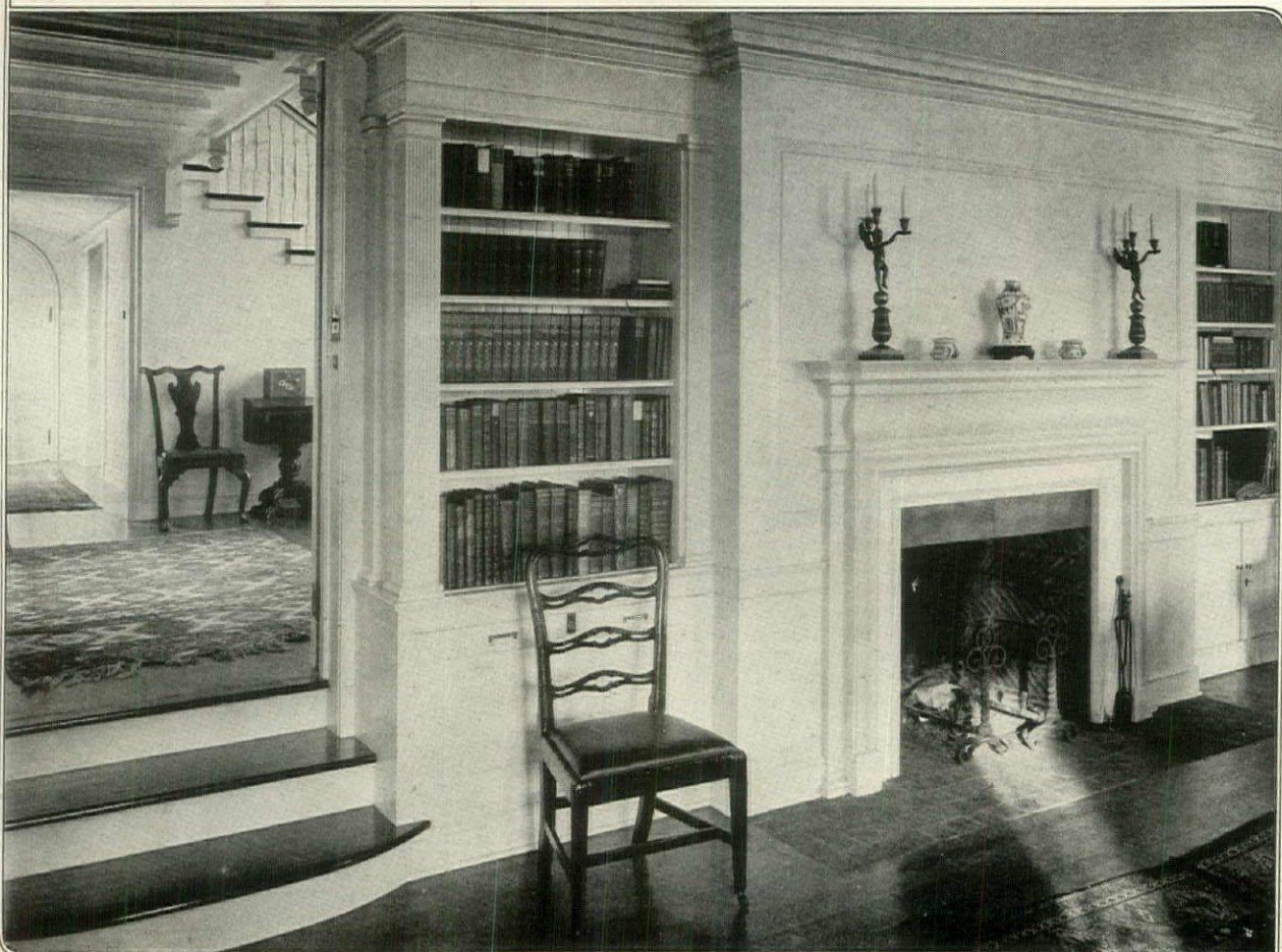




A gallery is a lovesome spot, God wot! It has Romeo and Juliet possibilities. It dispenses with the dark hallway and gives a unique atmosphere to both upstairs and down. No doubt you have seen this gallery in many pictures of children, for it is in the home of Jessie Wilcox Smith, Chestnut Hill, Pa.



At the farther end of this galleried hall is a fireplace that for line and garniture serves as an excellent example of what to put on a mantel shelf and what not. A Sevres vase and two candlesticks are sufficient, the lines of the mantel and the chimney breast being architecturally interesting just in themselves



A third view of the home of Jessie Wilcox Smith shows a glimpse of the library. Built-in bookcases flank the fireplace. Below them are cupboard doors for portfolios. White wood-work throughout gives a sense of spaciousness and bright sunlight



The photographs on this page are from the residence of Francis V. Lloyd, at Edgemont, Pa. Originally an old farmhouse, it was restored by Mellor & Meigs, architects. These are views of the combined living and dining-room, the above being the living end

Through this doorway, which is at the corner of the dining-room end of the big room, you pass to the library shown on page 32. Note how the atmosphere of the old house has been preserved in the rough cast walls, the bedmed ceilings and the original hardware

The view below is of the dining-room end. It is a large room furnished with antique pieces such as one picks up here and there from time to time, and it shows how such pieces can be assembled in harmony to make a comfortable, livable and wholly artistic room



BEAU BRUMMELS OF THE POULTRY WORLD

Add the Touch of Animate Life that Completes the Picture of Perfect Grounds—Pheasants, Peacocks and Ornamental Waterfowl—Their Raising, Care and Characteristics

E. I. FARRINGTON

FLOWERS, trees and shrubs have their place in making the home grounds attractive, but the picture is never wholly complete unless something animated is included among the decorative features. A bit of life lends much to any landscape, and even a few bantams roving over a broad lawn will add the finishing touch to Nature's canvas.

There is good reason for the growing appreciation of ornamental birds, both those that live on the land and those that seek the water, and that the demand for these decorative birds is fast increasing is indicated by the number of great breeding farms which are being established all over the country.

THE BEST PHEASANTS

Doubtless pheasants come first in the list, and it is not surprising that they have become exceedingly popular, for the male representatives, at least, of all the different breeds are wonderfully handsome. Several kinds are comparatively easy to care for, thrive in captivity and may be comfortably accommodated in smaller and less expensive houses than are required for common hens, although they need larger yards. Ring-necks are bred in the largest numbers, and as thousands of them are liberated each year, they have become very common in some parts of the country.

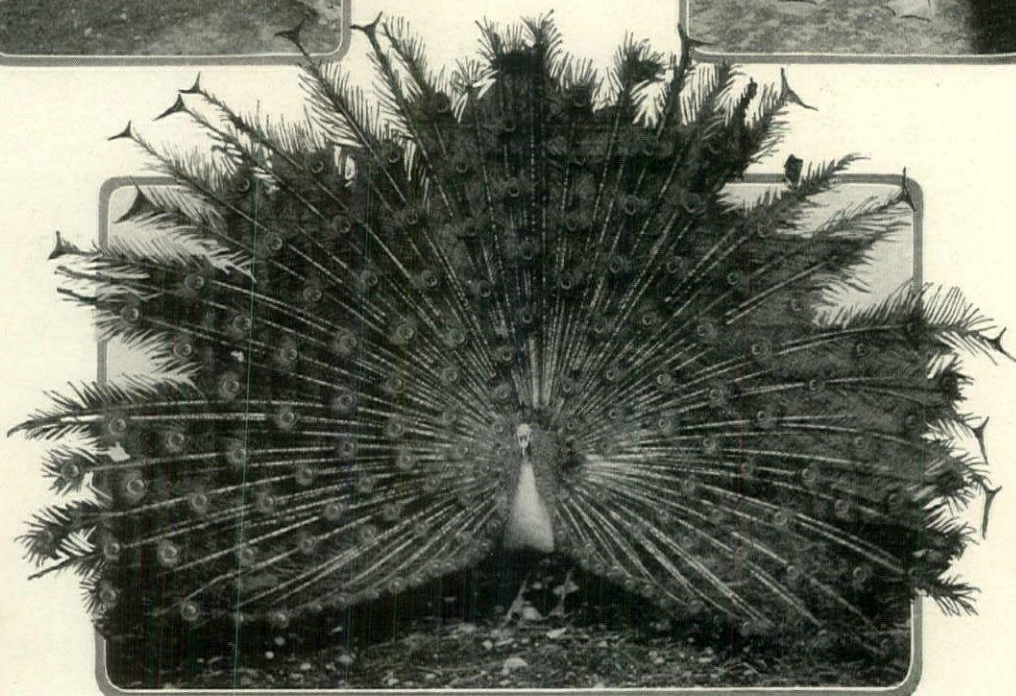
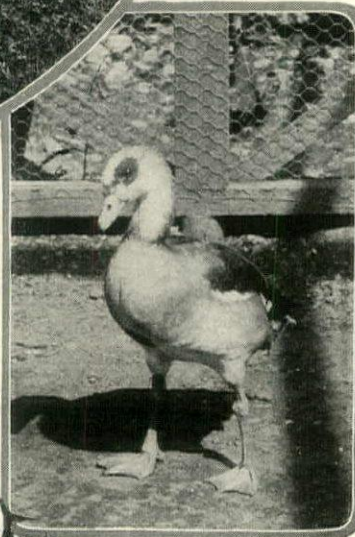
The other pheasants commonly raised are the goldens and the silvers, both strikingly beautiful. The golden pheasant is smaller than most of the others, but marvelously marked and colored; indeed, it is one of the most brilliant birds known to man, and it is a fortunate fact that this variety is among the best for the amateur and the small aviary



African geese with their young. In the background, two Canadas

Pelicans are highly amusing and interesting birds, easily tamed

A young Egyptian goose, somewhat pugnacious but popular



On large estates the peacock reaches his greatest value as an ornamental bird of remarkable beauty and long life

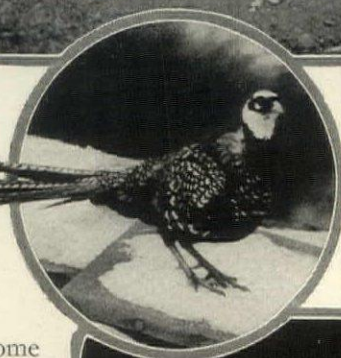
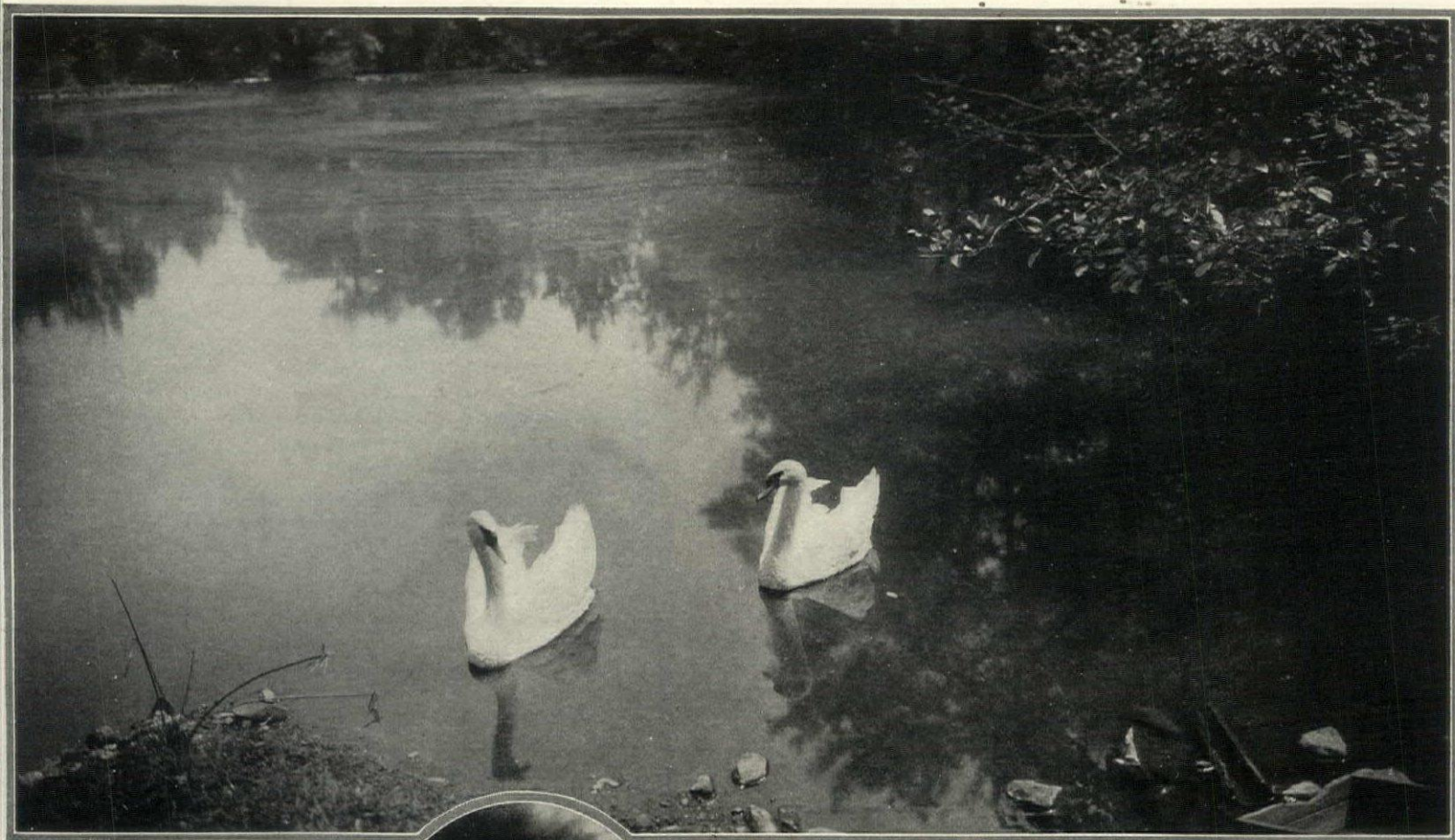
Golden pheasants lay only about two dozen eggs a year, while silvers will lay between thirty and forty, and ring-necks, which are the most prolific of all, up to sixty.

Although silver pheasants never become as tame as the goldens and have a rather disagreeable cry, often heard about the time the milkman calls, they are exceedingly hardy, very easy to raise and are greatly admired, the upper part of the body being white, delicately marked with black stripes, while the tails are 2' long.

Two other varieties likely to be coveted and eventually purchased are the Reeves and Lady Amhersts. The Reeves pheasant is the largest member of the true pheasant family and impressively beautiful, especially when the tail is in good order. Tails 4' long are not unusual, and the late Homer Davenport once showed a pheasant of this breed which possessed a tail measuring 6' 1". A Reeves pheasant in flight, darting forward at extreme speed and then coming to a startlingly sudden stop, is a wonderful sight. Reeves pheasants lay about twenty eggs a season.

LADY AMHERSTS

Like the Reeves pheasant, the Lady Amherst comes from China and is very beautiful to look upon. Indeed, few birds in existence have more wonderfully colored plumage, and it is very difficult to tell the young birds from those of the golden variety, unless one knows that the little Lady Amhersts have blue legs, while those of the diminutive goldens are yellow or sage green. Lady Amherst pheasants are somewhat larger than goldens, and yet weigh only from 2 to 2½ pounds. They are about as easy to raise as the more common kind.



When pheasants are fully grown they are perfectly hardy. This one is a male Reeves; in winter

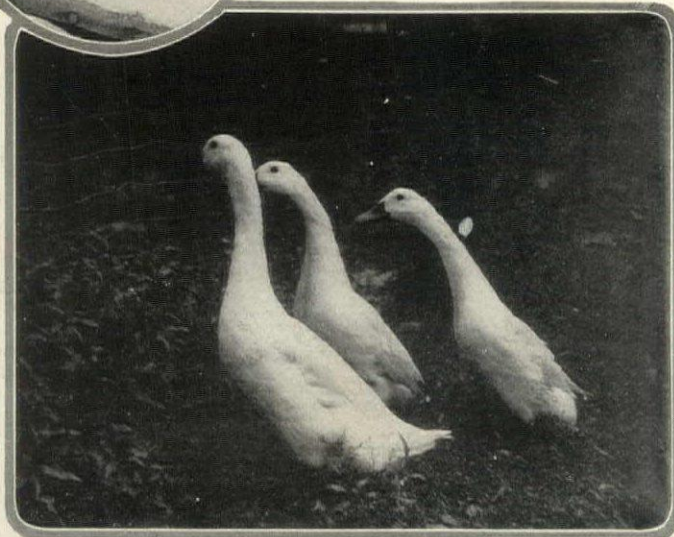
Swans there should be if a good-sized pond is available. They are too large to look well in ordinary pools

If pheasants are to be given some measure of liberty, they must be pinioned, which means taking off one wing at the middle joint, or else the wings must be clipped at intervals. It is better, though, to keep them confined except on large estates, where they can have wide range. The yards must be covered with wire, but the houses need not be large, as most of the time, day and night, will be spent in the open air; and there is no need of windows, although large openings may be cut in the front wall. High houses are not to be recommended, for the pheasants may be injured by flying against the top.

PHEASANT YARDS AND HOUSES

The model house is 6' high in front and 4' at the rear. It is 18' long and 6' deep and is divided into two pens. A double yard with a partition down the middle is 18' x 20' and 10' high. The house is made of single boards, but is covered on the back and sides as well as on the roof with a pebbled roofing paper that never has to be painted. There are no fixtures in the house except a high perch, but the bottom is covered with sand several inches deep, which is renewed about once a month. The feeding dishes, as well as the water fountain, are placed in the yard, where there are also several perches. Pheasants will roost in the open, even during the coldest nights, unless a high wind is blowing or a severe storm is in progress.

This house, as well as the yards, is port-



Indian runners are among the easiest ducks to raise. They combine utility and ornamental value

able, roof and walls being put together with bolts, and it costs \$150. It will accommodate thirty birds in winter, but of course only one mating can be kept in each side during the breeding season, as two cocks would fight if penned together. The house is quite as large as the average amateur needs. Of course a very satisfactory structure of the same size could be built at a much lower cost, but this building looks well enough for any estate, while it is not too elaborate for a suburban back yard.

It is always best to have an aviary on high, well drained ground and facing the south. If the ground is at all damp or there is danger from rats, it is well to have a cement foundation extending well below

the frost line. Sometimes cement floors are used, but they are satisfactory only when a deep layer of cinders under them provides good drainage. Even a cement floor must be covered with sand; better still, soft coal ashes. In localities where high winds are frequent, or where many people are moving about, it is well to board up the yards 14" or 15", and for convenience it is desirable to have a gate in each yard, as well as in the end of the house. About the only furnishings required, apart from the perches, are water fountains and feed dishes, but the latter should include hoppers for grit, oyster shell or charcoal, all of which it is wise to have before the pheasants at all times. The yards are usually covered with wire, having a 2" mesh. But there is one distinct advantage in using a 1" mesh, even though it costs

a little more—it keeps out the sparrows.

In mating, silvers are commonly paired, while goldens are mated in trios, and three to four ring-neck hens are used with one male. Silver males are likely to develop an exceedingly ugly disposition at breeding time and fight among themselves or with other birds, if allowed any degree of liberty. One cock to two hens is the proportion when mating Reeves pheasants, but three hens may be used in a Lady Amherst breeding pen.

RAISING PHEASANTS AND PEAFOWL

As a rule, pheasant eggs are laid between three and six o'clock in the afternoon.
(Continued on page 74.)

LEADERS IN THE INTERNATIONAL FLOWER SHOW NEW YORK

Six Recent Examples of the Nurseryman's Skill

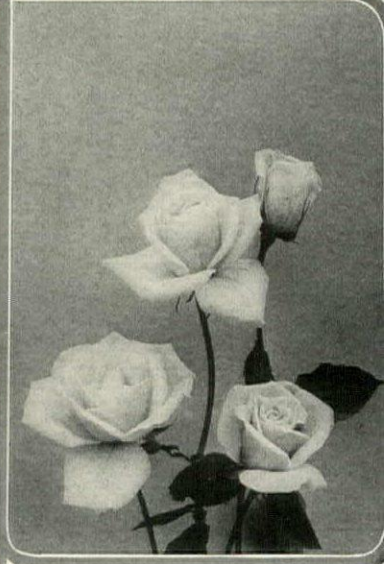


Photo by Edwin Levick

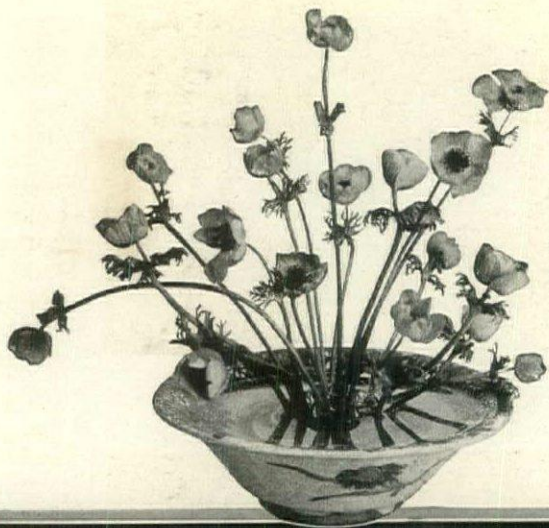
Prominent among the bulbous plants is a new amaryllis with red petals, shading inside to greenish yellow. It is most desirable for growing indoors



A charming arrangement of yellow Sunburst roses, white daisies and primulas, with artificial birds as decorative adjuncts, is exhibited by Stumpp. It forms a superb table centerpiece

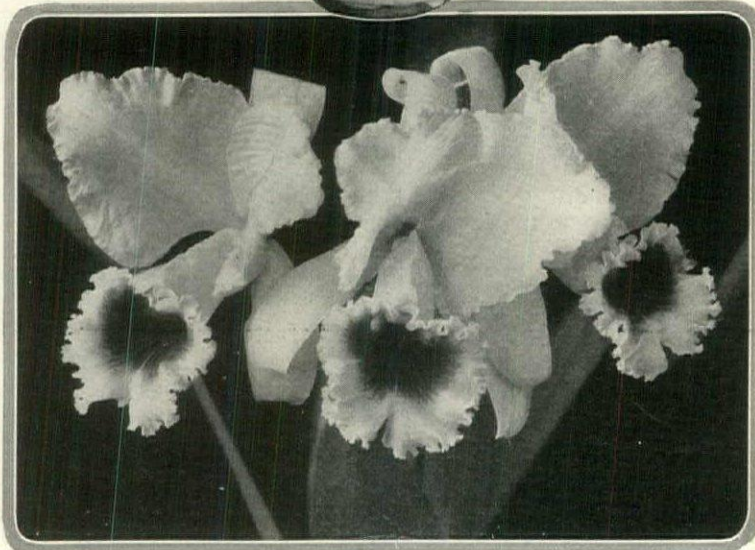


The new Ophelia rose, cultivated by A. N. Pierson at Cromwell, Connecticut, is one of the star attractions of the exhibition. It leaves little to be desired in foliage or blooms



The hardy perennial Japanese windflowers open prettily in artificial light, showing rosy purple and carmine blossoms mixed with white and yellow centers. Plants cultivated and dish designed by Stumpp

Another of Mr. Stumpp's exhibits is the new cream white freesias, daintily arranged with maidenhair ferns in an etched glass vase and exquisite for the dining table



The orchids are led by the new Queen of Belgians, a magnificent sort for which Mr. Edward Harkness paid the sum of \$1,000. Grown by Clement Moore, Hackensack, New Jersey

Freesias are adapted to fall and winter blooming in the hothouse. Their bulbs are also grown in water as regular house plants, and may be dried out for summer keeping



LET THEM HAVE A GARDEN!

OLIVE HYDE FOSTER

Why should the children not have a garden of their own, one which they themselves have planted, cared for and brought to its perfection of leaf and blossom? In it they will find occupation, health, a desirable feeling of responsibility, and an introduction to the wholesome charm of Nature. The article which follows is intended for children, and it deals with children's gardens. Read this article to your boys and girls. If you desire further information, address the Editor, House & Garden, 440 Fourth Avenue, New York.

APRIL has come around again, its warm winds and singing birds reminding you that now you must get busy with your beds if you are going to have any flowers. And, of course, everybody wants flowers, only some people won't take the trouble to find out how they should be grown. But oh! what a perfect delight is the growing!

Four steps must be taken before you start actual work:

1st—Find out what space you can have for your garden.

2nd—Learn something about its soil, situation and surroundings.

3rd—Make a list of the seeds, bulbs, vines, etc., you would like.

4th—Decide on planting so as to get the right heights and colors.

As to the first step, find out just how much ground you can have for your garden. It makes a good deal of difference whether you can have the whole back yard, a plot along the walk, a round bed in the center of the lawn (better only than none at all!) or a window box. You really cannot decide on a single plant until this is settled.

As to the second step, learn all you can about your new possession. Is the ground rich or poor? If it is light and sandy, you can grow such flowers as nasturtiums and mignonette and California poppies. By adding fertilizer you can have roses and dahlias. If the ground is heavy and stiff with clay, you can still have your roses and dahlias if you will add both sand and manure. So find out what kind of earth you are going to have to work with. Quite poor soil will grow sweet alyssum, coreopsis and geraniums, while rich soil is needed for asters, larkspur, zinnias and marigolds. Next think about your location, as a dry spot is necessary for such a plant as portulaca, while a cool, moist place is necessary for lily-of-the-valley. And last, but not least, think whether your garden is sheltered

and warm, or exposed to the chilly winds. Even a desert can be made to blossom if you only know how.

As to the third step, make a list of the

seeds, bulbs, roots, vines, shrubs, etc., that you particularly want, with the idea of having some flowers in bloom the whole summer long. If you are lucky enough to have



Flowers must be looked after just as regularly as if they were pigeons or tame rabbits or canary birds



Ready to fight the weeds which are always trying to kill the flowers



Several of you can own a garden together. Then each one can do part of the work and have some of the flowers

a kind friend or relative who will give you some they will probably be good and come up as they should. If you have to buy, though, be sure to go to a first-class, reliable dealer, for you don't want to waste your time and money on old things that won't grow.

Last of all, decide on your planting from your chosen list with a view to height and color, so that you will plant to the best advantage—the nasturtiums, which climb, for example, are best for the back of the bed against a wall or trellis, while the dwarf variety should go at the front of a border.

BIG WORDS FOR COMMON THINGS

To select your flowers intelligently, though, you must know something about their nature, habits, and tendencies, and certain words always found in seed catalogues and garden books may be puzzling to a beginner.

Annual, for example, refers to plants that live only a year or a single season.

Biennials, however, continue for two years before they die, making roots and leaves the first year and flowering the second.

Perennials are the kind that continue for more than two years.

Deciduous refers to the shrubs and trees that lose their leaves in the fall.

Evergreens are those that keep their leaves the whole year round.

Herbaceous plants may be annual, biennial, or perennial, but they have a stem that does not become woody, and they die down after flowering.

Hybrids are plants produced by "crossing" or mixing two different varieties.

All plant life, you must understand, re-

(Continued on page 56)

THE GARDENER'S KALENDAR


Fourth Month

Thirty Days

APRIL, 1916

Morning Star: Jupiter

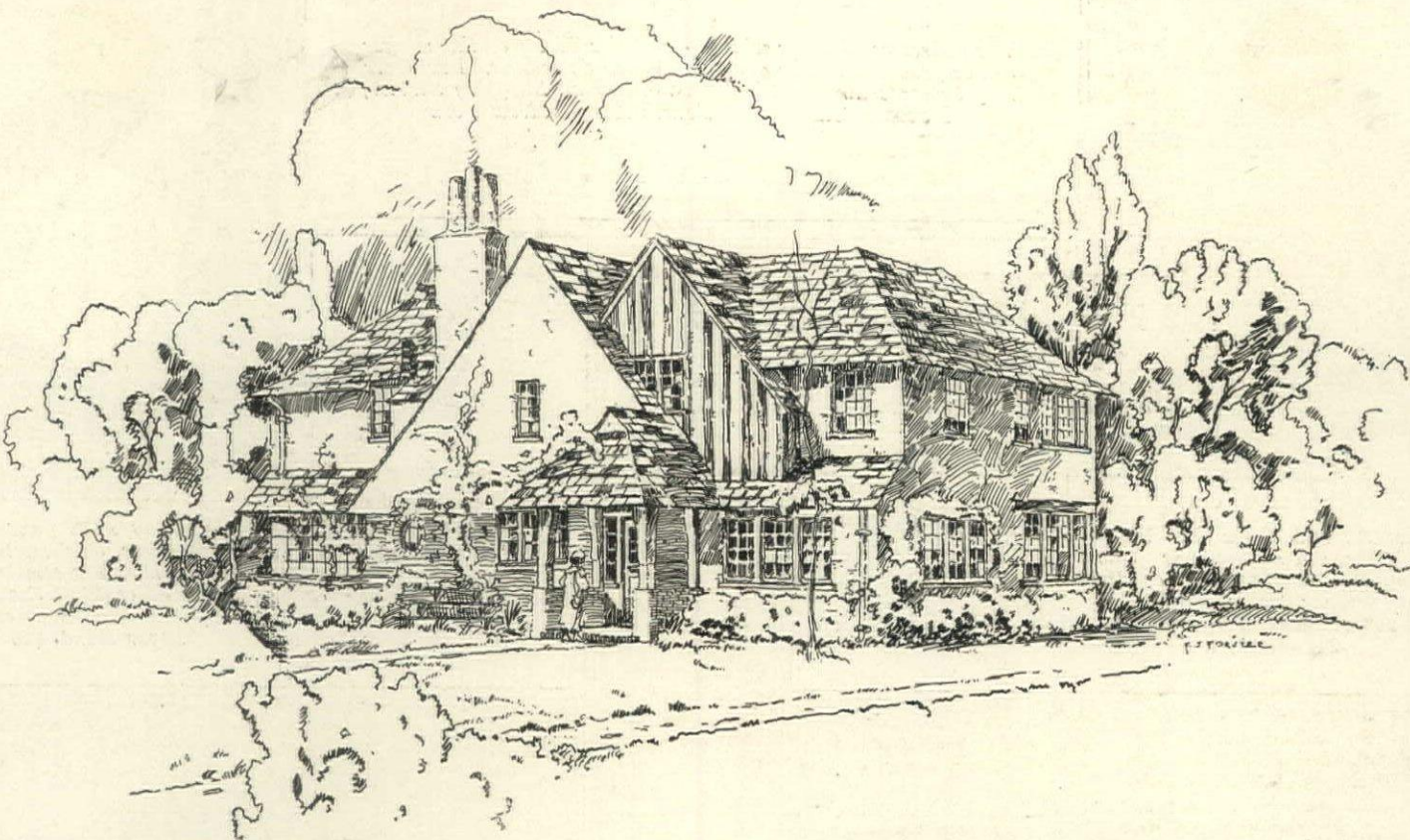
Evening Star: Venus

SUNDAY	<p>30. Low Sunday. Sun rises 5.00 A. M. Sun sets 6.55 P. M.</p> <p>Pea brush, bean poles, tomato trellis, dahlia stakes, tying material, arsenate of lead for spraying, etc., should be procured at once.</p>	<p>2. Fourth Sunday in Lent.</p> <p>Easter lilies, roses in pots, genistas and other plants for Easter, should be moving along rapidly. Have them in full bloom a few days before Easter and then place in a cool, dark place.</p>	<p>9. Passion Sunday, fifth Sunday in Lent.</p> <p>Changes of all kinds in the gardens, grounds or shubbery borders should be attended to at once. The earlier such work is done the better results you will have.</p>	<p>16. Palm Sunday.</p> <p>Spraying must be done before the foliage appears. Fruit trees, euonymus, lilac, roses, Japan quince, hawthorns, and magnolias are very susceptible to the attacks of scale insects.</p>	<p>23. Easter Sunday.</p> <p>Shakespeare born, 1564.</p> <p>All hardy bulbous plants such as gladioli, montbretias, Cape hyacinth, Ismene, tuberose, anthericum, lily-of-the-valley and hardy lilies should be planted.</p>
MONDAY	<p>This Kalendar of the gardener's labors is aimed as a reminder for undertaking all his tasks in season. It is fitted to the latitude of the Middle States, but its service should be available for the whole country if it be remembered that for every one hundred miles north or south there is a difference of from five to seven days later or earlier in performing of garden and farm operations.</p>	<p>3. If you have not already attended to them, sweet peas should be sown at once. These plants are gross feeders, and a thorough trenching and enrichment of the earth will repay you tenfold.</p>	<p>10. This is an excellent time to start an asparagus bed from seed, if you can wait for it to mature. Sow in rows where it can remain permanently.</p>	<p>17. B. Franklin died, 1790.</p> <p>Bay trees, hydrangeas and other tender plants used in tubs for decorative work should now be brought out of storage places. Spray frequently, top dress tubs with a good, rich mixture.</p>	<p>24. Do you know that <i>Pachysandra terminalis</i> is one of the most persistent of all plants and will grow when nothing else will, under trees on steep banks of light, gravelly soil?</p>
TUESDAY		<p>4. Don't put off pruning any longer; everything that requires it should be attended to at once, especially roses and fruits. Cut hybrid perpetual roses hard, tea roses more moderately.</p>	<p>11. Just as soon as the ground is in good workable condition get your potatoes in. Harrow regularly every week until the shoots appear above ground.</p>	<p>18. Full moon.</p> <p>Keep right on propagating all bedding plants in the greenhouse, such as coleus, geraniums, achyranthes, etc. Cannas should be started and potted up.</p>	<p>25. When pruning roses and other grafted plants, keep a sharp lookout for shoots from the root stock. If not kept cut out they will soon kill the desired variety.</p>
WEDNESDAY		<p>5. This is a good time to set out some fruit trees or a fruit border around the garden. Make a determined effort to grow your own fruit—you will never regret it.</p>	<p>12. Fort Sumter fired on, 1861.</p> <p>There are numerous vegetables that require frequent sowing to keep a succession, such as peas, lettuce, radishes, carrots, beets and spinach.</p>	<p>19. What are you going to do with your greenhouse this summer? Try some potted fruits, ordered at once; or a crop of forcing type melons can be started now.</p>	<p>26. If you want your hydrangeas blue, start feeding them now with alum, using a teaspoonful to a gallon of water. Iron rust also has the same effect.</p>
THURSDAY		<p>6. A few barrels placed over your rhubarb will hurry it along and improve the quality. The same is true of asparagus if you have enough coldframes to cover a row.</p>	<p>13. Thomas Jefferson born, 1743.</p> <p>All hardy flowering plants raised in coldframes, such as campanula, digitalis, myosotis, pansies, English daisy, etc., should be set out in the garden.</p>	<p>20. Onions, radishes, turnips and other root vegetables that are subject to maggots should have a mixture of soot and lime in equal quantities spread on the ground.</p>	<p>27. Gen. Grant born, 1822.</p> <p>What about some bog plants for that low spot? Bamboos, iris, hardy water-lilies, hardy ornamental grasses and tritomas are available for such purposes.</p>
FRIDAY	<p>Again the blackbirds sing; the streams Wake, laughing, from their winter dreams; And tremble in the April showers</p> <p>The tassels of the maple flowers.</p> <p>J. G. WHITTIER.</p>	<p>7. P. T. Barnum died, 1891.</p> <p>The strawberry bed should be uncovered, the mulch dug under, and you can now set out a bed of new plants. Prepare the soil thoroughly for quality berries.</p>	<p>14. President Lincoln shot, 1864.</p> <p>Better start hardening off in the coldframes: cauliflower, cabbage, lettuce, asters, zinnias, snapdragons, balsam, candytuft, etc.</p>	<p>21. Good Friday.</p> <p>Have you frames for your outside melons? They can be purchased very reasonably, and you can't grow the best melons without them.</p>	<p>28. It is always advisable to mulch the ground thoroughly around newly planted trees and shrubs, and particularly any very large trees recently transplanted.</p>
SATURDAY	<p>1. All Fools Day. Sun rises 5.45 A. M. Sun sets 6.24 P. M.</p> <p>As soon as the ground can be worked, sow peas, beets, carrots, cabbage, cauliflower, celeriac, leek, lettuce, onions, parsley, radish, spinach, salsify.</p>	<p>8. All seeding down of new lawns, patching of old ones, raking out of crab grass, sodding terraces, and every work in connection with lawns should be attended to at once.</p>	<p>15. Titanic disaster, 1912.</p> <p>All sorts of annuals for the flower garden can be sown now. Have the ground in good workable condition; don't let the weeds get ahead of the plants.</p>	<p>22. Don't neglect to give your asparagus bed plenty of salt at this time, and when gathering the asparagus do not cut through the plant crown. This would seriously injure if not kill it.</p>	<p>29. Any of the hardy vegetables or flowers that have been properly "hardened off" by a week or two in a coldframe can be set out now. Keep well watered, spray tops frequently and shade for a few days.</p>

"To-day the Spring is in the air
And in the blood; sweet sun gleams come
and go
Upon the hill, in lanes the wild flowers
blow,
And tender leaves are bursting everywhere."

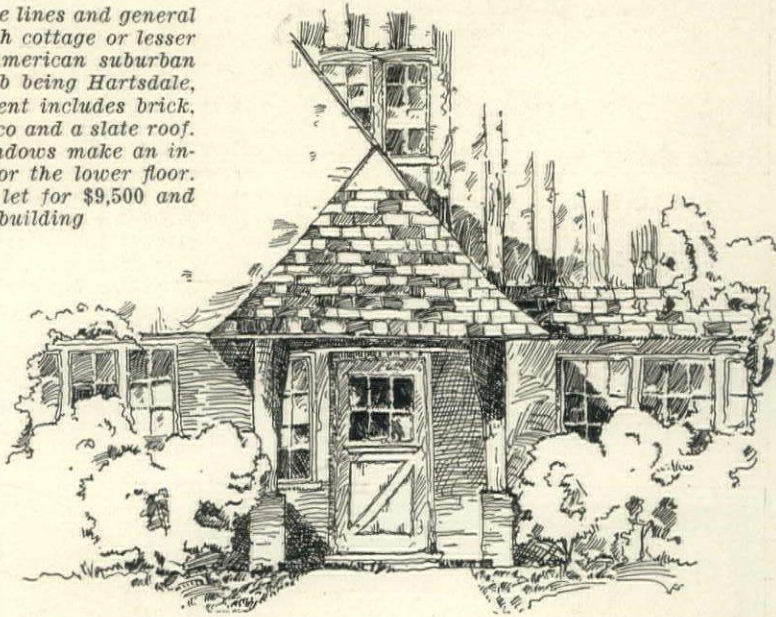
*April sun and April showers
Bring to life the bright May flowers.*

Cherrapongee, in Southeastern Assam, is the wettest place in the world, recording an average annual rainfall of 458", or a little more than 1 1/4" per day.

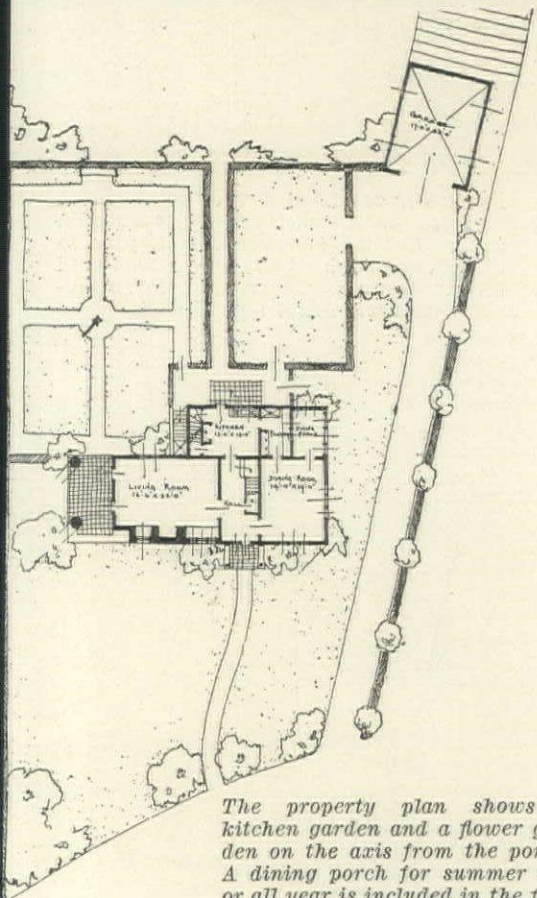


CARETTO & FORSTER
ARCHITECTS

It is an adaptation of the lines and general treatment of the English cottage or lesser country house to an American suburban environment, the suburb being Hartsdale, New York. The treatment includes brick, hand-hewn timber, stucco and a slate roof. Groups of casement windows make an interesting fenestration for the lower floor. The contract has been let for \$9,500 and the house is building

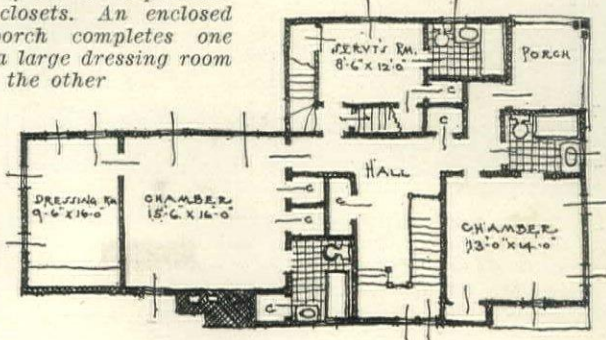


The detail of the doorway shows the use of heavy hand-hewn timber for the supports of the entrance roof. A bench is to be placed on either side of this porch



The property plan shows a kitchen garden and a flower garden on the axis from the porch. A dining porch for summer use or all year is included in the first floor plans

On the second floor the unusual imposition of the eaves provides room for closets. An enclosed sleeping porch completes one suite, and a large dressing room the other



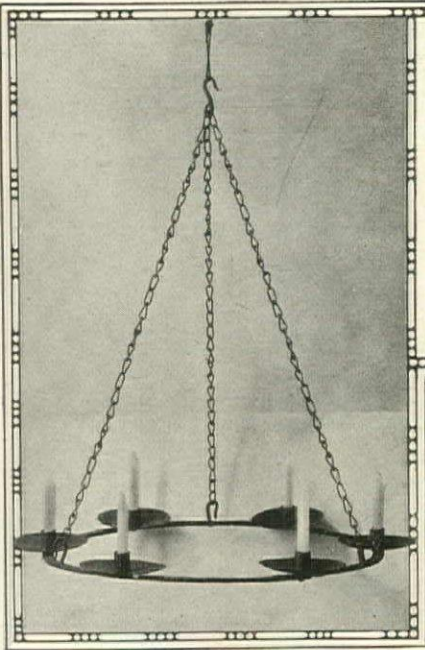
A SUMMER HOME OF ENGLISH PRECEDENTS

To Cost Under \$10,000

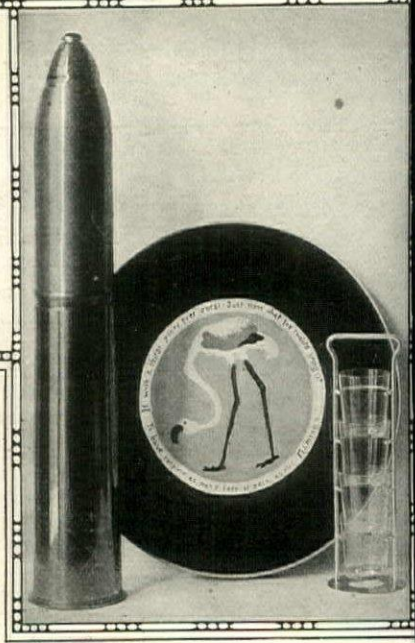
CARETTO & FORSTER, Architects

SEEN IN THE SHOPS

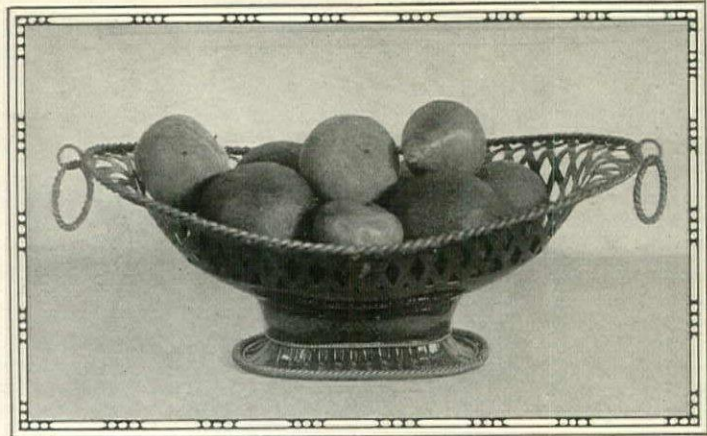
The addresses of shops where the articles shown on these pages can be procured will be gladly furnished on request. Purchases may be made through the HOUSE & GARDEN Shopping Service, HOUSE & GARDEN, 440 Fourth Avenue, New York



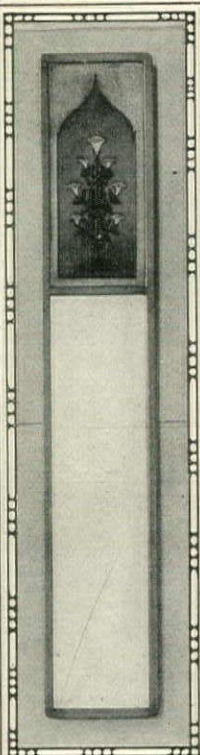
A novelty and a practical lighting fixture combined is this wrought iron hanging candle light, after Elizabethan design. It is 29" in diameter and sells for \$10 complete



Cocktail tray with flamingo design and verse, black, yellow and old rose, \$5.50. Fac-simile shrapnel shell as cocktail shaker and server, loaded with glasses and silver stand, \$10



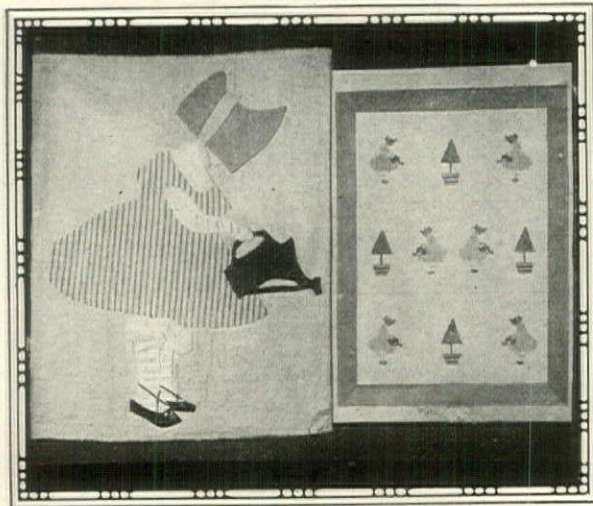
The lusciousness of prime fruits is made more attractive in anticipation when contained in this dainty Italian dish. "Fired in" green enamel with Roman gold trimming, or in several other color combinations, \$9.75



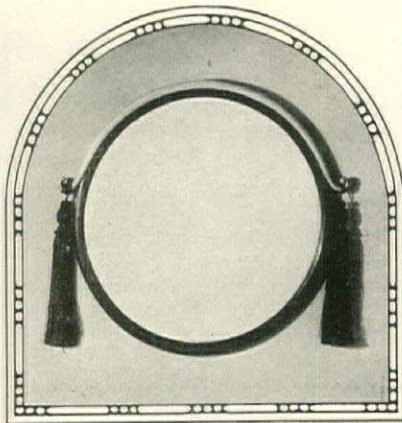
A mirror is a mirror so far as reflections are concerned, but the frame makes all the difference in the world. This attractive panel style, 50" long and 9" wide, is of yellow lacquer with black decoration. It costs \$37.50



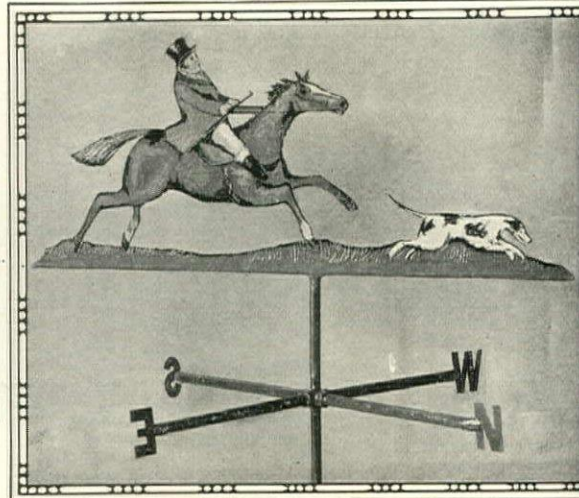
Hot water vegetable dish of porcelain, in nicked container with faucet at one side, \$2.25. English jet ware teapot, four to eight cupfuls, hook-on cover, 39 to 98 cents. Syrup jug or cream pitcher, removable metal top, 75 cents



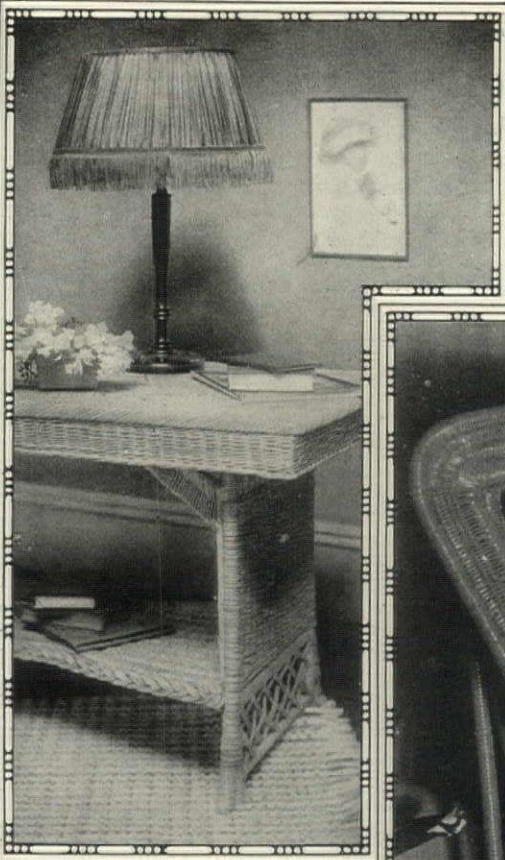
Part of a patchwork quilt package containing water color of quilt, one finished square, marked and cut appliqué designs, white squares for appliqué, bands for border, cotton, silks and instructions. \$7-\$17



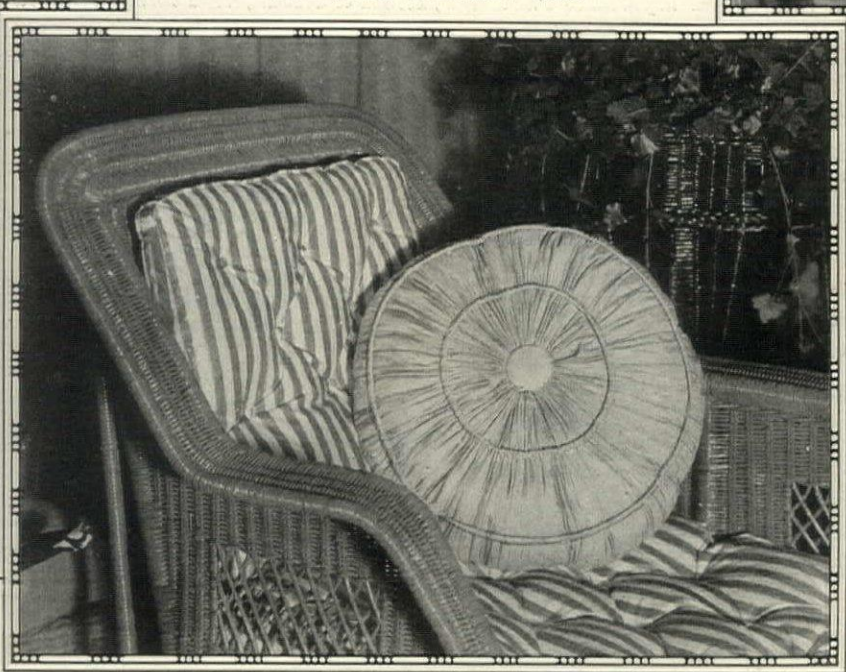
Occupying considerably less space than the panel mirror shown above, this circular one with the red silk tassels on either side measures 15" x 15". It is framed in black and yellow lacquer, and is priced at \$35



For the real sportsman's stable a little Pickwickian type of foxhunter is ready to tell whether or not the wind is favorable for following the hounds. Made of metal, 3' wide and hand decorated, \$25

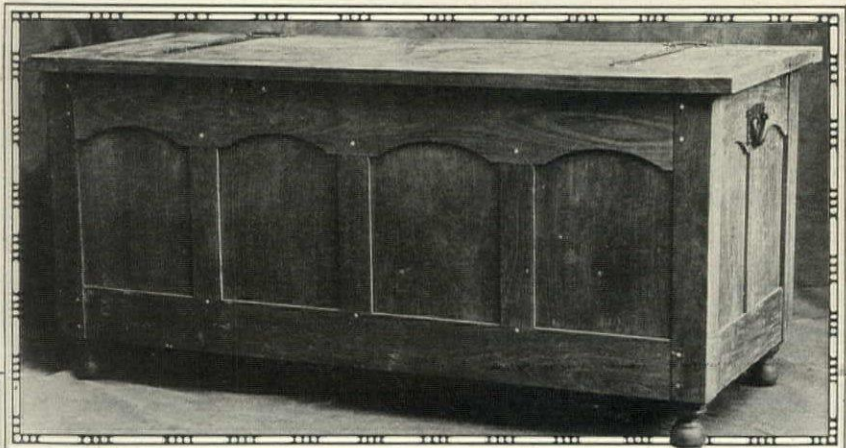


To increase the ease of the easiest chair a round cushion of corded silk mull may be had in rose, blue and gold. It looks especially well with wicker furniture. \$1.85

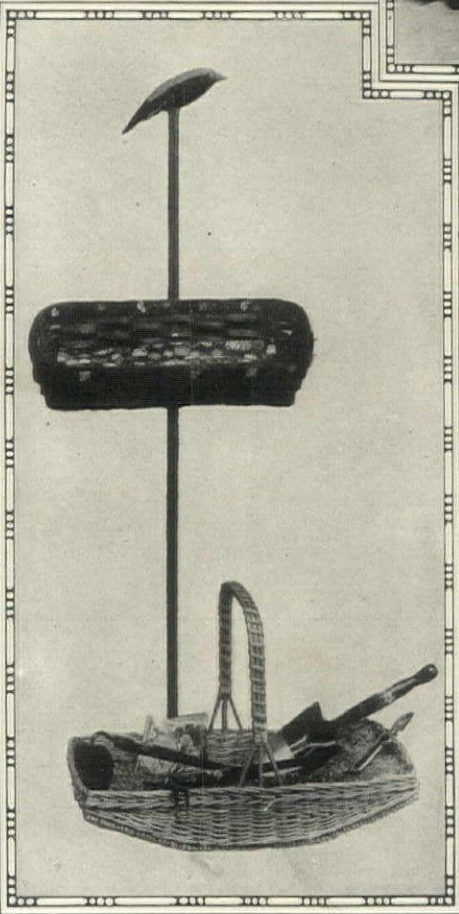


Color harmony between container and contained is quite possible in the case of this round bird cage of wickerwork. It can be had in any color of enamel desired, with contrasting silk tassels. For example, you can have yellow cage and red tassels, or a green one with red tassels; 17" high by 16" wide, \$12.50

This closely woven willow table with natural wood top, 26" x 48", costs \$25. Mahogany base lamp, 28" high, 18" silk shade, \$5; the lamp may also be had with burnished gold base, white enamel or ivory finish. Fern dish or flower bowl, 3" x 5", brown art metal with cameo medallions and inner pottery bowl, \$3.50

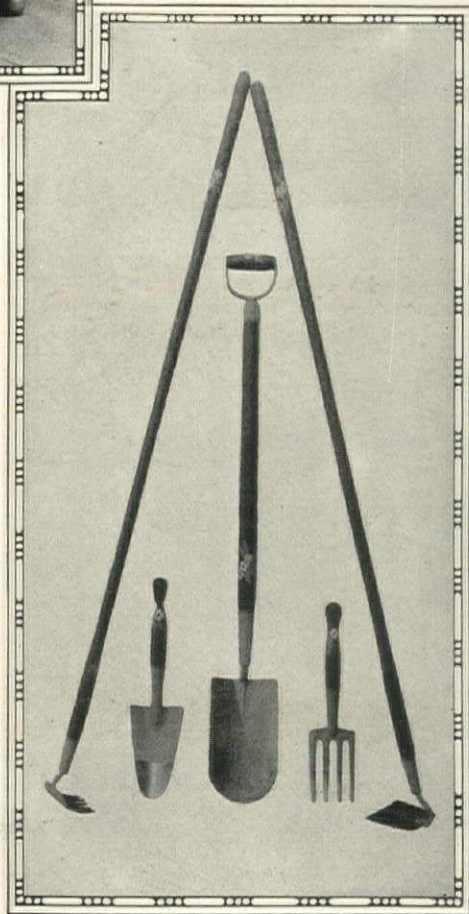


To hold the garden tools and prevent their becoming lost, strayed or stolen or wrecked by exposure, this substantial oak or black walnut chest is excellent. Put together with wooden pegs and fully stocked, it is priced at \$25 and \$50



With these two baskets the gardener is prepared for either planting or plucking. Gathering basket sliding on oak stake, \$3.50; willow tool basket, chintz lining, \$5

Five garden tools decorated with flower designs, finished in weatherproof paint and of practical utility, \$5 a set. Simpler ones can also be obtained at somewhat lower prices



YOUR ALL-YEAR GARDEN

April Activities Among the Vegetables and Flowers—Work in the Greenhouse, Frames and Out-of-doors—Putting the Hardy Border in Trim for the Growing Season

F. F. ROCKWELL

The Editor will be glad to answer subscribers' questions pertaining to individual problems connected with the gardens and the grounds. Please enclose self-addressed, stamped envelope, and address your inquiries to The Editor, HOUSE & GARDEN, 440 Fourth Ave., New York

LAST month I urged the necessity of having everything ready so that you could take advantage of the first possibility for actually starting work. So if your garden is big enough to be plowed, you should have a man engaged and ready to come just as soon as the soil is dry enough. If it is a medium sandy soil with good sub-drainage, you can determine this time by running a hoe handle or crowbar down into the ground. This will prove whether or not the frost is all out. If the soil is clayey in character or if it remains wet because you have not drained it properly, you will have to wait a little longer since such soil takes longer to warm up.

OUTDOOR WORK

The soil should not be plowed or forked until it will crumble readily when worked over instead of remaining in heavy clods or slices. But even so you need not delay all your operations. Dig up a row a few feet wide in the frames or some sheltered spot, where you can sow a line of smooth early peas, a few radishes, some onion sets or large onions, if you have any left over that are beginning to sprout. These old sprouting onions will break up into several small ones and grow with astonishing rapidity when placed in the ground.

Many gardeners make the mistake of breaking up only as much ground at one time as they need to use for planting. It is far better, both on account of the time as well as of the work saved and the results obtained, to do all this preliminary work at one time, if possible. If you get all the surface fine, every drop of rain that falls will be readily absorbed and evaporation of the moisture will be reduced to a minimum. Consequently, your reserve water supply, when the dry days come, will be much greater than it would have been had the ground remained untouched. This is no mere theory. It will make so great a difference in the condition of the soil later on that it may well prove to be the deciding factor between success and failure.

The first vegetable to be planted besides those just mentioned will be extra early beets, sown quite thick because they will not all come up now. It will be well also to put in cabbage plants, kohlrabi, a first small sowing of lettuce, spinach and early turnips. Vegetable roots, such as asparagus, rhubarb, horse

radish and sea kale, may be set out now.

Among the flowers, pansies and English daisies are about the first to be set. Hardy perennials may be put out as soon as they are received from the nursery; if you have any of your own that need moving or dividing, the sooner you can attend to them, the better. Small fruits and fruit trees should be planted as soon as they are received from the nursery. If you have dormant roses, it is essential to get them in as soon as possible. Later on in the month plant deeply second early cabbage plants, cauliflower, lettuce (both plants and seeds), leek for subsequent transplanting, mustard, parsley, wrinkled peas,

potatoes, rutabagas, salsify, summer spinach and second early turnips. Hardened-off rose plants from pots can be set out when danger from hard frost is past.

IN THE GREENHOUSE

While these outdoor activities are occupying your time and attention, do not overlook the many important things still to be attended to in the greenhouse. During this month many plants and seedlings started in February and March will need re-potting and transplanting. More attention in the way of air and watering should be given them and they should be moved out-of-doors as fast as they are ready to be hardened off preparatory to transplanting.

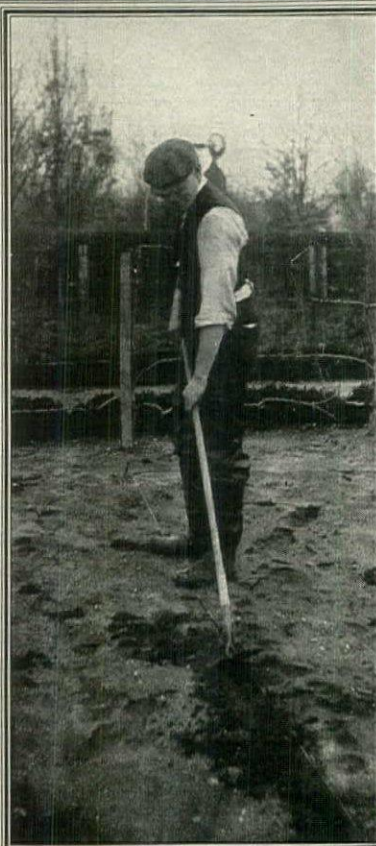
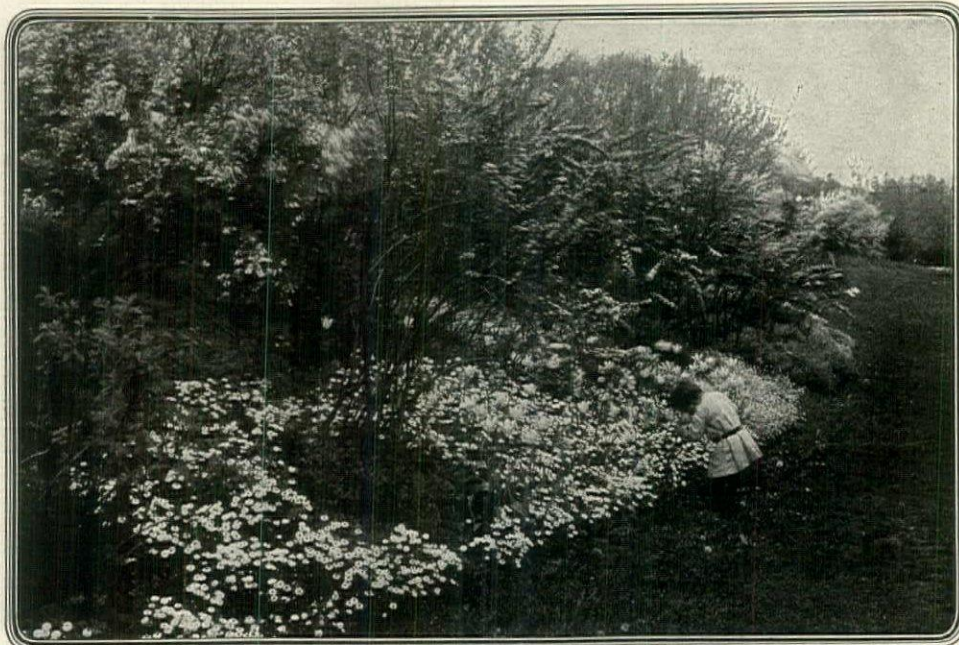
The greenhouse work is by no means done when the early stuff such as cabbage, lettuce, beets, etc., is out of the way. Tomatoes, eggplants, peppers, melons and squash will have to be looked after carefully if you want to have them ready for setting out at the proper time next month. The former will need potting and re-potting until they are strong, sturdy plants in 5" pots. The things to be grown in paper bands, such as sweet corn, should be sown in rich compost from four to six weeks before you will want them. Three to four weeks is plenty for sweet corn. Take pains, also, to plan for the things with which you will fill your greenhouse benches and beds or coldframes after the garden plants have been removed. Extra early crops of melons, cucumbers, etc., could be grown as well as not in greenhouses and frames that are left empty from May until September.

The spring-blooming border is a result of careful planning and work

These plants will require only a foot or so of space when they are first set. The idea is to have them coming on so they will occupy the greater space by the time it is vacated by the other plants.

In the greenhouse at this time of the year you will do well to keep a particularly sharp lookout for insect pests. Thorough and frequent fumigation and the use of good insecticides and fungicides will do much to enable you to keep things in good condition.

(Continued on page 70)



In setting out the cane fruits and other wooded things the soil should be well firmed down around their roots

As soon as the condition of the ground permits, work over the soil in preparation for planting

The hole should always be large enough to admit the roots in their natural position and without crowding

FABRICS AS FRESH AS
SPRING ITSELF
AGNES FOSTER

Are you in doubt as to what color schemes to use in your new rooms, or what fabrics and furnishings in your spring refurbishing? Ask Miss Foster, HOUSE & GARDEN, 440 Fourth Avenue, New York. She will serve you without charge. Fabrics and articles shown here can be purchased through the HOUSE & GARDEN Shopping Service



For a man's room, a linen depicting The Canterbury Tales; 50" wide, \$2.85 a yard



Linen again with crude bird and branch designs in various colors; 31" wide, \$2.75

NECESSITY has again proved the mother of invention—many inventions. A short time ago one heard on every side complaint about the scarcity of spring fabrics for hangings and upholstery. The prices of imported materials soared with a rapidity disheartening to even the most affluent home decorator. But meantime this very restriction was working to the advantage of American-made textiles, and we have produced unusual quantities and qualities of fabrics that are the direct outcome of the shortage of foreign-made goods. Ingenuity stepped into the breach. The result?—New ideas in American fabrics, and such imported materials as we have made up in quality of design for meagerness of quantity.

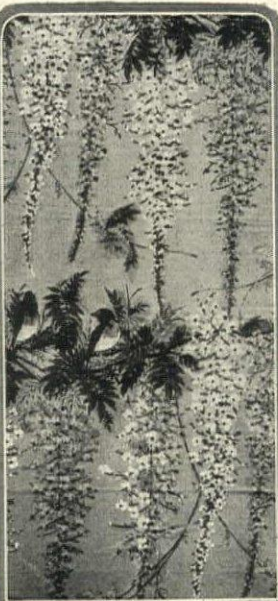
VIRILE DESIGNS

The general tendency in this spring's fabrics seems to be toward conventional pictorial designs. The naturalistic flowering, indeterminate patterns will always have their place, especially for bedroom furnishings, where a restful general-toned effect is desired. But for living and dining-rooms and porch use, striking, daring pictorial designs have been introduced and accepted with much appreciation. The country house dweller wants to be amused, even as to window hangings.

One unusual window hanging depicts in a virile direct manner the landing of Sir Walter Raleigh. There is an invigorating zipp and a swing to the fulfilled galleons. Therefore with his admiring followers—including a properly posed dog—Raleigh plays bowls. There are fish, gulls, lions and dragons, all of the heroics. The colors are a strong definite blue, green and orange. It is just the fabric for a library or living-room of a country house.

Along the same decorative lines, suitable for a man's bedroom comes a pictorially interesting design of the Canterbury Tales. The monk and knight, the friar and the bagpipe player, each is done in direct simple outline and flat color. The material as a whole is a well spaced and well-colored ensemble. It is only upon close examination that we discover the house to be piebald, and that the bagpipe player is almost bursting with his efforts.

Another strikingly decorative linen has two



A heavy cretonne suitable for wicker; 50" wide \$3.75



A Sir Walter Raleigh linen in blue, green and tan; 50" wide, \$2.75 a yard

idea of flat pure primitive color with conventionalized decoration is shown in a small bedroom cretonne where all the primary colors are combined in an all-over pattern, interesting points of accent being given by vari-colored jackdaws.

BLACK FOR ACCENT

Black still holds a high place in decorative schemes, perhaps not to quite the extreme extent of last year, but there is scarcely any porch fabric that does not have much black worked into the design. This is easily accounted for: black brings out any color combination to advantage and does not fade. For country and seashore houses this is a real asset.

One of the most artistic fabrics of the season is a natural colored linen with orange flamingos. The foliage is of clear green and blue, a softening effect being given by a touch of grey, but the fabric is made really irresistible by well-placed touches of black that bring out the design. Used for hangings in a grey room with other spots of orange and a few pieces of black furniture, this drapery would find its precise metier.

DESIGNS FOR WICKER

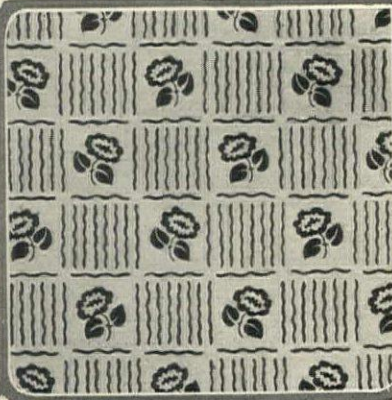
Wicker lends itself to every possible combination of stain and coloring. A branched design of graceful wistaria and long-tailed birds forms an excellent chair covering. A delicate small-potted design gives to the weave of the wicker a full credit. Heavy covered designs, when used with wicker, take away from the light and airy feeling that wicker should have. Therefore, select something graceful that has the same underlying feeling as the wicker itself. Stain the wicker grey, and use a covering of grey, blue and dull greens.

There are several stunning and inexpensive cretonnes for porch use. One has a tan background and a broken stripe of black against which are thrown large vivid bunches of flowers. These are so placed that the fabric will cut to advantage for furniture covering. Also, with the light coming through them the bouquets are effective when hung at the windows. A smaller design has a quasi-Poiret flower bunch in yellow, orange, blue and green, against a small broken black stripe. The design has a striking decorative effect. These

(Continued on page 92)



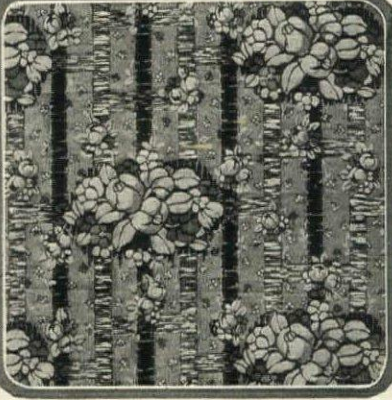
A formal patterned cretonne with black background and rich dull colors; 31", 45 cents



Heavy linen, 36" wide, with hand-printed black conventional flowers. \$2.25 a yard



Another hand-printed linen, 36" wide, with designs in green, yellow and blue. \$3.60



An excellent porch cretonne that comes in various color combinations; 31", 60 cents

Home Needs

WHY not sit down leisurely and look through a complete catalog of the many practical and helpful things you will need?

There are rattan and willow furniture, summery curtains, grass rugs—all make for coolness and comfort.

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is a complete catalog for the summer cottager. Nothing is forgotten—the house, the garden, the grounds—all indoors and out—well-chosen examples of how they may be made charming and practically pleasing—are all shown.

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Because of its helpfulness, you will find House & Garden indispensable in supplying your every-day needs.

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Send the Coupon today.
Read "Your Service," opposite column

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House & Garden, 440 Fourth Avenue, New York As per your introductory offer, please send me the next five numbers of **HOUSE & GARDEN**, beginning with May (Summer Furnishing Number). On receipt of bill I will remit trial subscription price of \$1. (Regular subscription, \$3.)

Or, I enclose herewith \$1, for which send me the next six numbers, beginning with May.

Name
(Please write name and address very plainly.)
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OUR readers are urged to study and use this index as a buying guide. You will find each advertiser offers a product of quality, dependability and value—that your wants, at all times, will receive prompt and courteous attention. If there are any other subjects in which you are interested and you do not find them listed below—do not hesitate to ask us. Whatever information you may desire about the home, whether it concerns plans of building, decorating the interior, or the making of a garden—in fact—all indoors and out—we will gladly supply.

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Read "Home Needs," opposite column

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A Bedroom with Sloane Furniture in Chippendale Style

Faithful Reproductions and Adaptations of Rare English Furniture

The above illustration shows a perfect reproduction in the finest mahogany of a genuine Chippendale Bed made about the middle of the Eighteenth Century in which the French influence is apparent. The Chest of Drawers, Dresser, Table and Triple Mirror in black lacquer, were made to order to complete this interesting suite.

One of the great charms of Sloane Furniture is the absolute fidelity with which authentic old pieces are reproduced.

The Hangings and Coverings in gray and rose figures over a violet ground are Cretonnes imported from England. The Chenille Rug in two-tone violet, the gray wall paper and the English prints in black frames with ripple-gold mouldings, complete a charming bedroom ensemble.

W. & J. SLOANE

Interior Decorators

Furniture Makers

Floor Coverings & Fabrics

Fifth Avenue and Forty-seventh Street

New York



Let the Old Oaken Bucket Still hang in the well—but, only as a memory

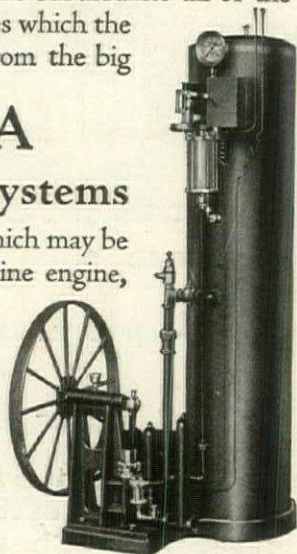
TIME was when the old oaken bucket was a necessity in the household of every suburban family. With it, water was drawn from the well or spring and carried for domestic use. Today, in the minds of very many suburbanites the recollection of the old oaken bucket lingers only as a memory, for with the improved machinery and equipment which we offer, any one having an available source of supply—from well, spring or lake—can have a water supply system offering to the suburbanite all of the opportunities and advantages which the city family now enjoys. From the big line of

EUREKA

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may be selected an outfit which may be operated by electricity, gasoline engine, kerosene engine, water pressure or by hand, to supply an adequate volume of water, and at the desired pressure, to meet all requirements. On this page we illustrate one of the many "Eureka" outfits, and types of pumps and systems.

If you are not enjoying the many advantages of a good water supply system, or if you have a system which is not giving proper service, we request that you fill in and mail to us the coupon below, for catalog, and suggestions as to the proper kind of system to meet your needs. This will not obligate you—and we will welcome the opportunity of submitting a plan.



No. 2799 "EUREKA" ELECTRIC AUTOMATIC WATER SYSTEM

Our most popular electric outfit. It is self-controlled—starting and stopping automatically—uses a very small amount of current, and has a capacity of 150 gallons per hour. There are other similar "Eureka" systems for use where a larger capacity is needed.

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The B. B. B. Co., Cleveland—Please mail complete catalog of "Eureka" Water Pumps and Systems. I am interested in a ☐ pump, ☐ system to be operated by (check which).
☐ Electricity ☐ Gas Engine ☐ Water Pressure ☐ Hand Power.
Our daily water consumption is about _____ gallons.

Name _____
Address _____

H. & G. 4-16



When the ground gets very dry you must always give the garden a drink of water

Let Them Have A Garden!

(Continued from page 47)

quires five things: *warmth, light, air, water and food.* But plants differ as much as people, and some need more of one thing than they do of another. Some grow best in sunlight, others in shade; some in sand, others in rich soil. You will have to find out what each kind requires—and instructions always come with what you buy. The foods needed in the soil have some big names, too: *nitrogen, potash and phosphoric acid*, all of which are found in the different farm manures.

PLANNING THE GARDEN

Right here is the place to stop and draw a map of your garden, and mark off the space for your chosen plants. Thus, you can be sure of placing the different kinds where they will look and do the best. You can draw half a dozen plans, and choose the most suitable. Only never forget the simple rules of a famous landscape gardener:

- 1—Plant in masses, not isolated.
- 2—Avoid straight lines.
- 3—Preserve open lawn centers.

Next coax some one stronger than yourself to dig up the ground thoroughly and spade in some fertilizer, preferably manure. Plants live on what they draw out of the soil, and it must be well pulverized and free from stones so that the tiny rootlets can work their way through.

For quick results from the seed, plant annuals! Some will blossom within six weeks—and if you can help out your garden with some transplanted roots and bulbs, you will have flowers in even less time. Here are some annuals that can be planted outdoors late in April, as far north as New York, in ordinary seasons:

two latter can be bought very cheap in full bloom, and afford flowers at once, while waiting for seeds to develop. Frequent picking, too, will make them bloom much longer. It has been said that no stingy person is ever a successful gardener! Mountain pink, also, can be bought in flower at the same time.

A MORNING GLORY PLAYHOUSE

A morning glory playhouse will prove a source of delight all summer. Persuade your big brother to drive a few long stakes in the ground, from the top of which you can fasten heavy cords to pegs driven in the earth in either a square or a circle. Then, after soaking the seeds over night, plant so the vines will climb up and over. Being shade lovers, the blossoms will hide under the thick, green leaves, lining the whole inside of your house with fresh flowers, like stars, every day. The hyacinth bean can be used the same way, as well as the scarlet runner, which latter also gives you a nice bean for the dinner table.

A FEW FAVORITE PERENNIALS

While you want all the flowers you can have the first year, be sure to get all the seeds, roots and bulbs you can put in the ground this season to come up next year by themselves. These are the perennials. At the end is a short list of old favorites.

THE WINDOW BOX

If you live in the city, and can have only a flower box in a window, or along the rail of a porch, cheer up! There is still a chance for you to have blossoms all summer. After having it filled with good rich soil on top of a layer of broken crockery or stones (for drainage) you can plant the running nasturtiums along the outer edge for a hanging vine. In-

Name	Color	Blooms	Height
Alyssum, sweet	white	All summer	8"
Asters, China	white, pink, red, purple	July until frost	1' to 2'
Coreopsis	yellow, marked	June to October	1' to 3'
Candytuft	white, red	June to September	6"
Cornflower	blue	June to September	1' to 2'
Cosmos	white, pink, crimson	August to frost	7' to 10'
Marigold, pot	yellow	July to October	1' to 2'
Mignonette	greenish (fragrant)	July to October	1'
Morning Glory	purple, pink, blue, white	July on	10' to 20'
Nasturtium	yellow to maroon	July to October	1' to 8'
Petunia	white to magenta	July to October	1' to 2'
Phlox Drummondii	white, pink to red	July on	1'
Pink, Chinese	white, pink, maroon	August on	1'
Poppy	scarlet	June to September	3'
Tobacco plant	white	July on	3' to 5'

If you have to make a round bed, side that plant a row of the blue it can still be made lovely with a few lobelia used for edging, or set in a roots of bleeding hearts in the center, surrounded by alternate sections of English daisies and pansies. The few pansies already in blossom. Then you can have still another row of

(Continued on page 58)



Tapestry in Miss Swift's Foyer

MISS SWIFT

11 EAST 55TH STREET
NEW YORK

INTERIOR
DECORATING

FURNITURE HANGINGS
MATERIALS, WALL AND
FLOOR COVERINGS

EXCEPTIONALLY RARE
AND BEAUTIFUL FLEMISH
TAPESTRIES OF THE 17TH
AND 18TH CENTURIES



Play House



Garage



Bird House

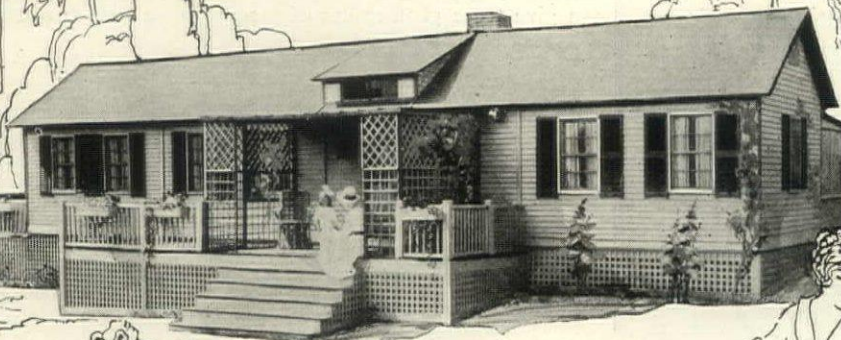
HODGSON *Portable* HOUSES

If you want a cottage at the shore or in the mountains this summer, get a Hodgson Portable House. Erect one on your own grounds, too, as a playhouse for the children or a lounging place at your tennis-court. If you need any adjunct to your regular home, buy one of the many styles of Hodgson Portable Houses.

Made in sections that interlock for rigidity and constructed so simply they can be quickly bolted together by unskilled workmen, they represent the quickest and least expensive method of erecting a small house. Thoroughly practical for any season or climate.

Our catalog shows you the great variety of purposes that Hodgson Portable Houses are made for. Address

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6 East 39th St., New York City



Cottage



Feed Box



Screen House



Dog Kennel





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Does Your Roof Add to the Safety of Your Home?

Sparks from your own or a neighbor's chimney or fire brands from a nearby fire cannot ignite the roof built with

JOHNS-MANVILLE Transite Asbestos Shingles

Fire-Proof and Everlasting

Made from Asbestos fibre and Portland Cement—two materials that cannot burn. J-M Transite Asbestos Shingles will not rot, warp or split. They never need staining. And because of the variety of their shapes, sizes and colors, they permit great flexibility of treatment, lending themselves to practically any architectural scheme.

Lighter and less expensive than tile or slate and more readily adapted to the average type of roof construction. Cost little more than ordinary wood shingles and the first cost is the only cost.

When laid by the American method as shown above, these shingles are entered as Class "B" material by the National Board of Fire Underwriters and take the lowest existing rate of fire insurance. Your carpenter, roofer or slater will lay them and your satisfaction is definitely assured by

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J-M Roofing Includes Roofing for Every Purpose

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THE CANADIAN H. W. JOHNS-MANVILLE CO., Ltd.
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Serves more people in more ways than any institution of its kind in the world.

Let Them Have a Garden!

(Continued from page 56)

taller plants—say pink and white geraniums, with a few ferns. Another pretty box could be made by putting Wandering Jew, or "inch plant," along the edge of the drooping vine, then the seed of the blue ageratum for your edging, with next a row of the lovely pink begonias. As it takes a number of weeks for any seeds to grow and come to flower, you had better save your candy pennies and buy a few blooming plants from the spring peddler. They will gladden your heart while waiting.

All kinds of green add to the appearance of these little boxes, and all the white flowers soften and help to blend the bright colors. The China asters, white, pink and lavender, look very well in a window box, and if started in shallow trays or old pots in the early spring, can be transplanted later. Then when your first crop has seen its best days, you can take it out, put in your asters, and they will be lovely all fall.

Name	Color	Blooms	Height
Baby's Breath	White	June, July	2' to 3'
Blanket flower	Red, yellow	July to October	3' to 5'
Bleeding Heart	Pink	May	18"
Candytuft	White, purple, rose	June	6" to 8"
Chrysanthemum	No blue	Sept. to November	2' to 3'
Columbine	White, purplish, red	May	2'
Coreopsis	Yellow with brown	August to frost	1' to 2'
Forget-me-not	Blues	May, June	6" to 18"
Golden Glow	Yellow	August	6' to 8'
Hollyhock	All shades (abiennial)	July	4' to 6'
Iris	No reds	May, June	3'
Lily-of-the-Valley	White	May	6" to 8"
Larkspur	Blue, white	June, July	2' to 5'
Peony	White to crimson	May, June	3'
Phlox	No yellow or blue	August, September	3' to 4'
Pink, Chinese	Pink, lilac, white	June	1'
Sunflower	Yellow	Late summer	4' to 8'
Sweet William	Red, pink, white	July, August	1'

A short list of the old favorite perennials

Growing the Modern Gladiolus

(Continued from page 26)

Pure whites are not as plentiful as one might expect, but there are several excellent ones obtainable. Of these Europa is perhaps the best, and mention may also be made of White Excelsior, Glory of Holland, Lily Lehman and Rochester White. Good so-called whites are Augusta and Chicago White, the latter being slightly yellowish with long spikes and well opened flowers. Augusta sometimes has a strong lavender tint unless opened in the house.

Of the blues, Cerulea and Baron Hulot are low-priced, Viola and Heliotrope of medium cost, and Badenia and Blue Jay quite expensive. In the yellows, Canary Bird, Klondyke and Isaac Buchanan are low-priced, Golden King, Golden West and Niagara more expensive, and Golden Measure sells as high as fifteen dollars a bulb. Schwaben and Mongolia are other fine yellows.

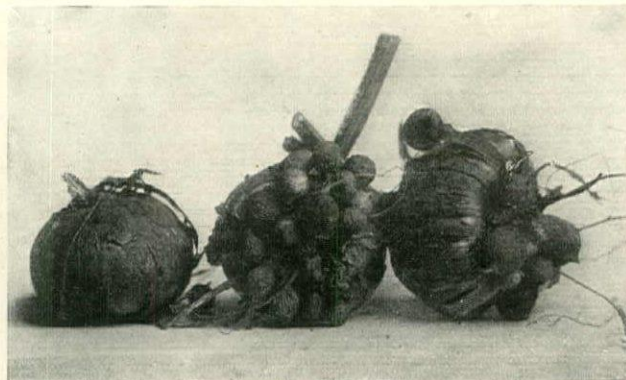
Childsii are among the best to plant if large flowers of good substance are wanted. They are invariably sturdy growers, and the majority are branching. They will often give three good spikes of bloom

below the main spike. Their flowers are more like lilies than gladiolus blooms, and an August sun that will make a Gandavensis droop has no effect on the Childsii.

The Lemoine race give us earlier bloom, and some most beautifully blotched and marked. They are not widely-opened flowers. They are said to be hardy, and I have had small bulbs of Praecox which I did not dig live through the winter safely and come up early in the spring.

The Primulinus type is very interesting, and the Kunderd ruffled strain is to the gladiolus enthusiast what the Spencer pea was to the sweet pea enthusiast. And the Burbank hybrids are simply gorgeous.

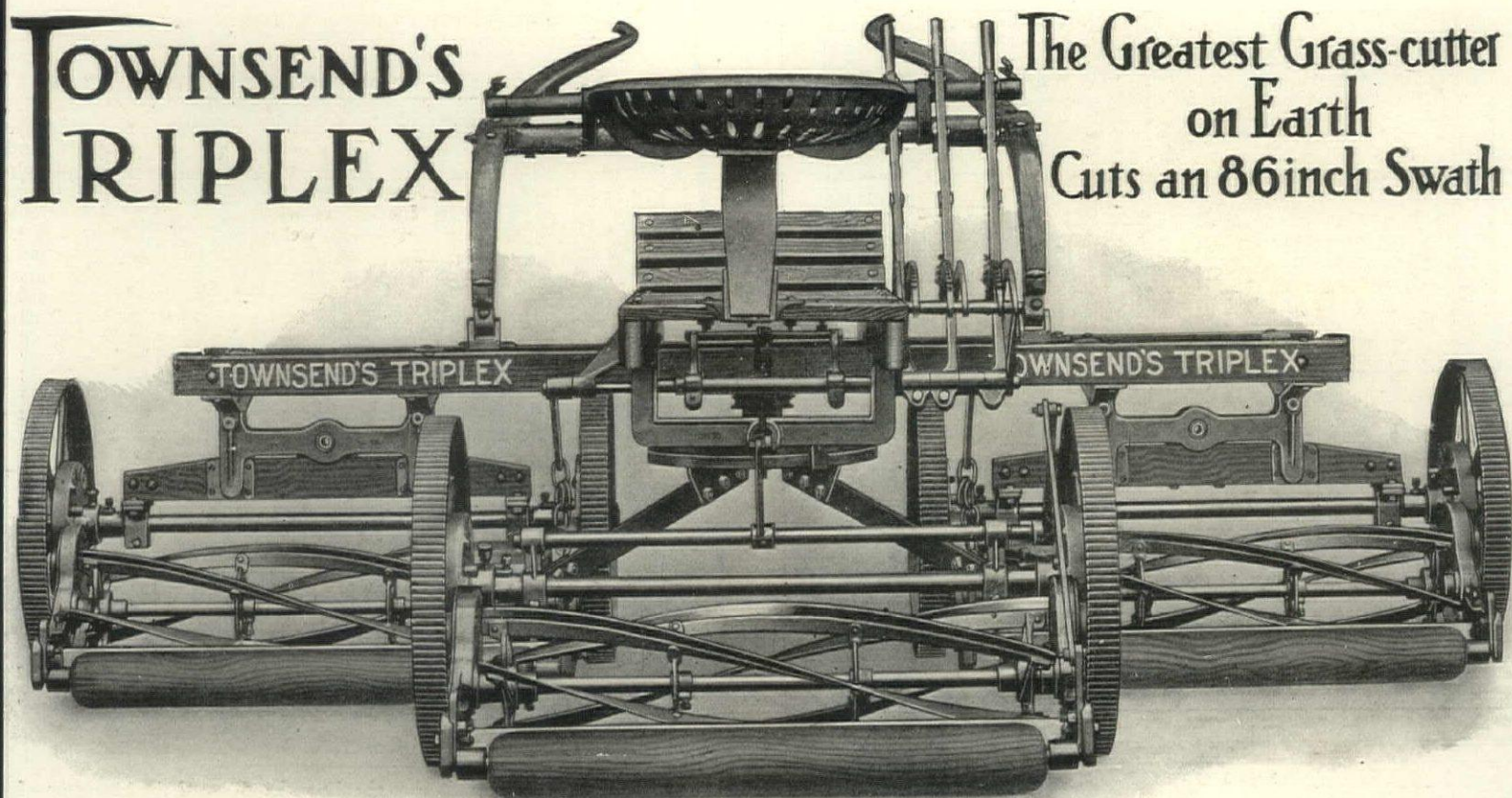
If one likes to watch things grow in the garden he may buy bulbets by the peck or the thousand from some of the growers and make his start in that manner. And the grower of gladioli no longer has to do his growing by guesswork, or by such information as he is able to glean from odd sources. We have a magazine devoted to this beautiful flower of so many possibilities, of so obliging a nature and of such wide use.



The little bulbet offshoots from gladiolus corms may be used for separate planting

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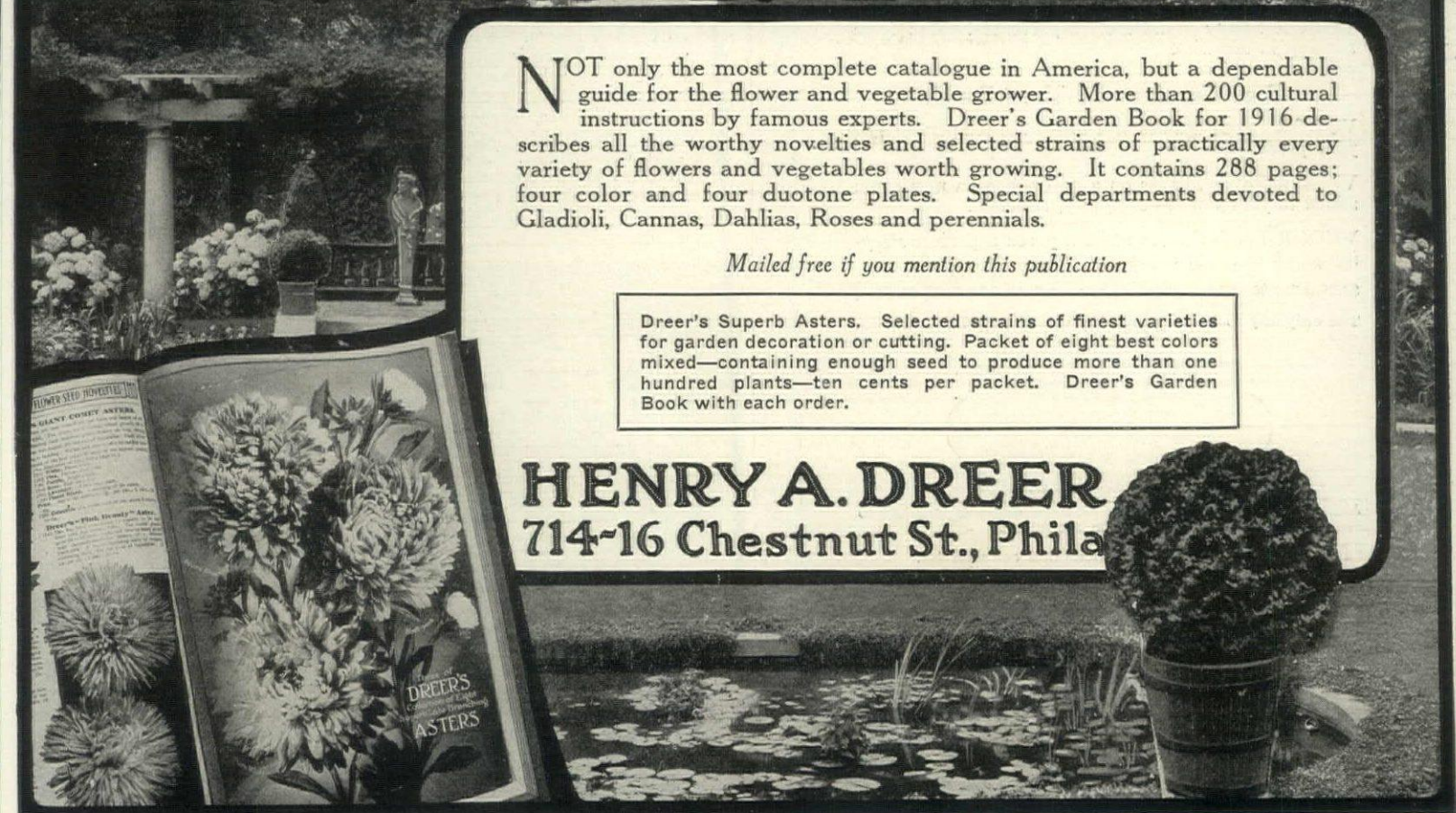
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The white sprays of spiraea, massed in the shrubbery beds and borders, are in their full glory this month

IN SOUTHERN GARDENS

JULIA LESTER DILLON

Southern readers who desire information on their gardens will be served promptly and without charge. Address Readers' Service, House & Garden, 440 Fourth Ave., New York City

APRIL PLANTINGS

UNQUESTIONABLY April is the most beautiful month of the year in this section. Then it is that the spring-blossoming shrubs are in full flower, the bulbs are still glorious, Darwin tulips, iris and lilies show all their exquisite loveliness. The dogwoods star the roadsides, woodlands and gardens, the drooping racemes of the wistaria hang from every trellis, screen and porch. Golden-hearted Cherokee roses send out spicy fragrance on the soft and balmy air.

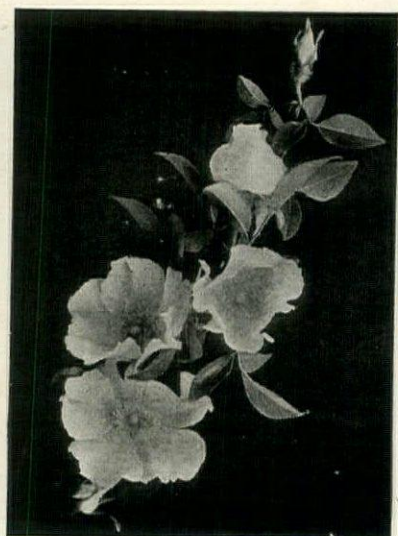
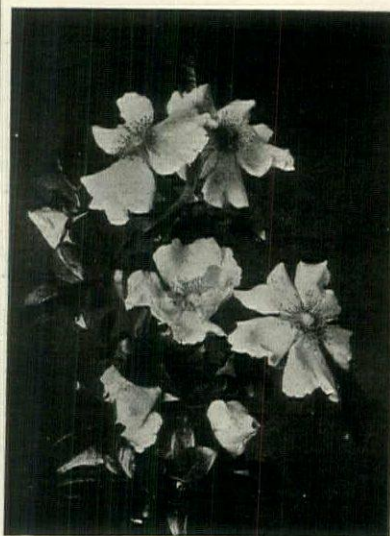
All of these perennials are valuable for the shaded situations found in every garden and which are usually bare because so few things will grow even in half shade. The heavenly blue tones found in the campanulas, delphiniums, platycodons and aquilegias are also unusual in the garden picture.

Fill the flats as usual, plant the seeds very carefully, and as soon as the plants begin to crowd transplant into a shaded corner of the garden. Leave them there until the late fall and then place them in permanent positions. For two years at least they will repay you for your initial trouble, your careful watching and patient waiting.

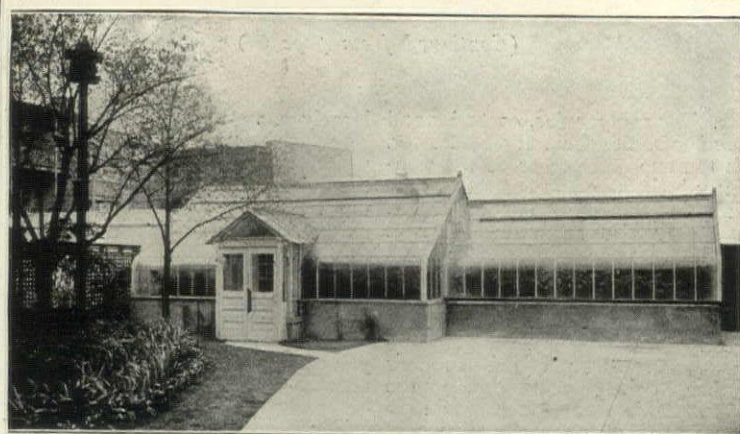
Of the columbines, the *Aquilegia coerulea*, in blue and white, and the *hybrida* of the same will be found satisfactory. This plant is exceedingly decorative from the foliage standpoint as well as for the blossoms. If cut, the latter will continue for several months.

The Japanese bellflower, *Platycodon grandiflora*, in blue and white, is charming and effective when combined with the *Hemerocallis flavax* or

(Continued on page 62)



Golden-hearted Cherokee roses somewhat suggest the wild rose of the North and fill the air with their peculiar spicy fragrance and charm of color



A Year 'Round Garden

Don't lose the beauties of your garden when summer ends. Build a conservatory—an all-year garden, where you can have a wealth of flowers throughout the winter, as well as in the warmer months.

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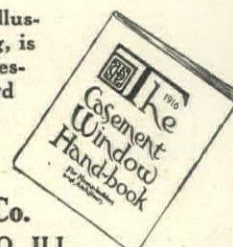
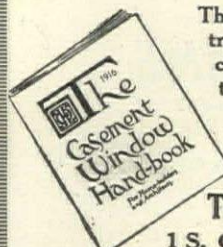
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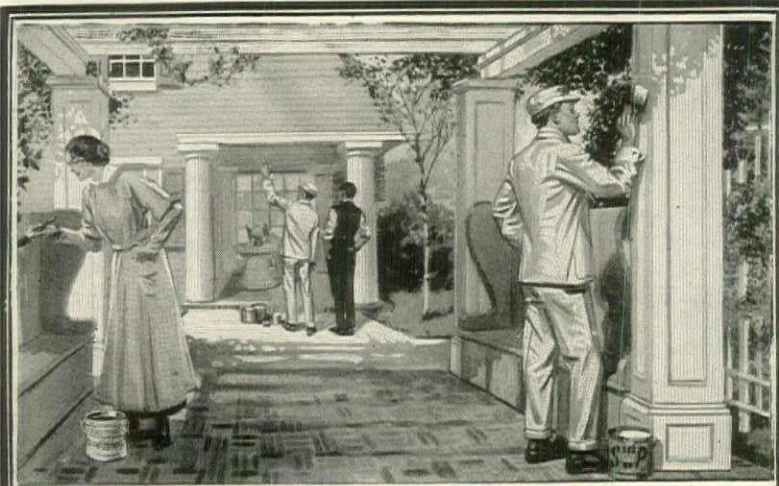


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In Southern Gardens

(Continued from page 60)

fulva. The campanulas, *carpatica* and *pyramidalis*, the Chimney bellflower, with the cup and saucer of the Canterbury bells, give another set of blue values in the garden color scale. These may also be planted in rose and white.

The foxgloves, *Digitalis gloxiniaeflora*, are wonderful when they can be successfully grown. They must have a cool start for seed germination, shade through the summer months and sheltered position for the winter. This done, they begin to bloom in February and for six weeks are glorious anywhere. Planted among the broad-leaved evergreens so generally used in the South they are more effective than when seen in the gardens of other sections, perhaps because to see them blooming so early is such a surprise. In these, my favorite colors are the rose and white, although the purple is good in some combinations. Being biennials the foxgloves must be planted each year.

In February also the flower stalks of the perennial delphiniums begin to lift themselves above the cleanly cut leaves. In mid-March the flower buds unfold and the blue of the sky is a part of the garden glory. No flower shows so clear a cerulean blue, so heavenly an azure as does the *Delphinium belladonna*. A clump of these delphiniums planted in the foreground of the shrubbery border, or in a border of perennials framed in grass walks, with the clear sun shining through the petals of the lifted flower stalks that rise at least 2' above the ground, is achievement enough to satisfy the heart of a gardener through many weary days.

Other perennials of easier growth and more widely known than those just enumerated are the candytuft, *Iberis sempervirens*, the golden *Coreopsis lanceolata*, for all summer bloom, the hollyhocks, in many shades and varieties, and the *Physostegia virginica*, the false dragon-head. This begins to bloom very late in August, and continues steadily until December. The colors are pink and white and a soft lavender.

Plant one package of each of the seeds just given, follow carefully the directions, and for each time that you invest in seed you may count on having a harvest of at least one-hundredfold of joy, beauty and fragrance in your garden.

ANNUALS FOR SUMMER BLOOM

It is not yet too late to plant the annuals needed for the summer, and this is the best month to plant the aster seed. Best results are found to be obtained if the seeds are planted in the garden, the plants thinned out as they grow larger and left, in most cases, where they were first planted.

From the bewildering collections of asters offered by the seedsmen it is very hard to make a selection. It is

largely a matter of individual taste. The early-branching varieties, in white, the mid-season in pink, and the late-branching in lavender give the three best colors. For a pink garden, the three varieties are easy to find. They come in single and double, in quilled and curled, and in large and small. All are good, except the muddy rose-reds and the violet-blues that so many gardeners plant in close proximity.

BABY RAMBLER ROSES

For a planting that promises the minimum of work and the maximum of results, both for cut flowers in the house and for blossoms in the borders, there is nothing that will equal the many kinds of baby rambler roses. Many people confuse these with the *Wichuraiana* hybrids and the rambler roses, and pass them by in the catalogs without reading about them. The rambler roses in the South are most prone to mildew and are avoided for that reason.



The blossoms of daffodils help to make April the most beautiful month of the whole Southern year

The baby rambler roses are the cleanest, sweetest, and loveliest roses ever planted. They give nine solid months of bloom. Last year in March I planted 250 of these roses in a border 2' wide to separate a grass walk from a center lawn, and there was not a single day from mid-April to

Christmas that those little bushes were not masses of soft pink clusters of the baby Dorothy Perkins roses. The catalog name is Anchen Muller.

The Catherine Zeimet is the white of this rose. Louise Walter is the softest of flesh pinks, with a cup-like individual bloom, and the outer edge of the petals lined with a deeper touch of pink. The full clusters look like the bunches of baby roses that we put on the hats of the tiny little girls. They are also clean and fragrant and absolutely everblooming.

Of the reds, the Erna Teshendorff is the reddest, while Madame de Herbert Levavasseur is the color of the crimson rambler. All of them are good. Cecile Brunner is a dainty fairy-like rose of not quite so robust a habit as the other varieties mentioned. The color is a soft saffron like the Tausendschon without the rose tints. George Elger is a polyantha like the Cecile Brunner, but gives the yellow note in these plantings. The Etoile d'Or is another yellow polyantha that promises good results. The price of all these roses is \$30 and \$40 a hundred. Smaller quantities will, of course, be a little more proportionately, but they are the most satisfactory of all plantings for sunny situations and spring, summer, fall and winter bloom.

Yes, be sure you do not overlook the roses. Your Southern garden can be beautiful without them but it cannot be the very best. And perfection, of course, is what you want!



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The Clang of the Engines

hoarse shouts—the sound of running feet. You awake with a start, terror gripping at your heart, big with the image of the laddie in his crib at the other end of the hall. And then you remember that you have built throughout of

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and you know it is time for sympathy, not fear. Yes, it was the beautiful new house across the road—whose owner was paying a heavy penalty just for lack of foresight.

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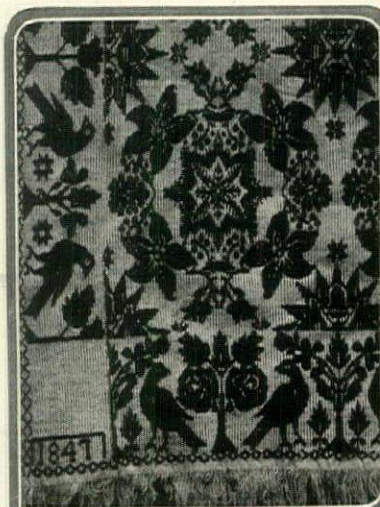
Early Lace-Making in America

(Continued from page 34)

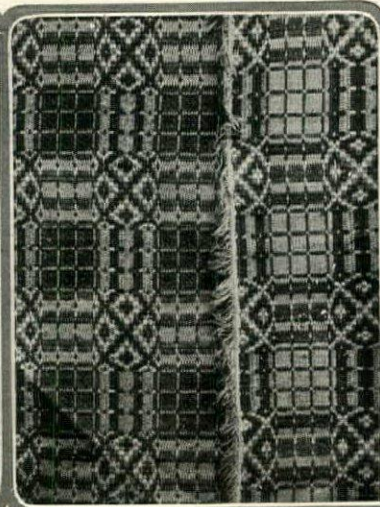
an excessive export duty on the machinery, together with a £500 fine or a long term of imprisonment for the offender who broke the duty law. Despite all this, the important parts of the machinery reached our shores, hidden, I have read, in tubs of Yorkshire butter.

In a short time, an excellent quality of net, both black and white, was being produced in Ipswich. This net

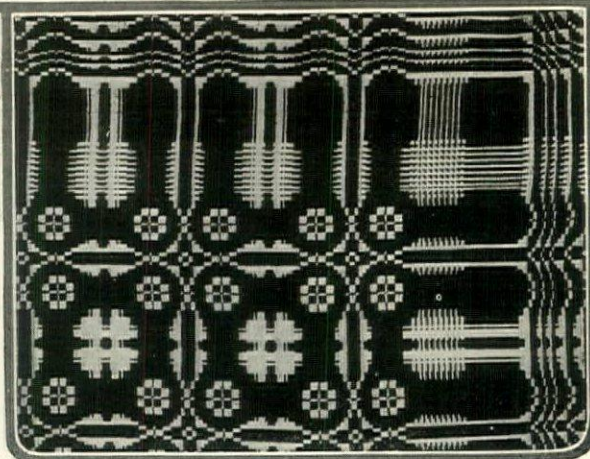
own, with more attenuated designs. The second illustration shows the more open and naturalistic design; in both, however, the workmanship is excellent. These two pieces were wrought by Miss Elizabeth H. Richards and by Mrs. Stephen Baker in the old lace factory on High Street as early as 1827. The work is similar to that done in Ireland under the name of Limerick, the same sort be-



A coverlet woven in 1847,
of dark blue in a peculiar
ridged weave



"The chariot wheels" or
"church windows," popular
before the war



The Whig Rose pattern in dark blue and
white, a favorite design with Tennessee
weavers of the middle of the 19th Century

was the foundation or background for the second kind of lace, a lace produced by darning in the pattern. The factory or headquarters for the laceworkers was in one of the lovely old mansions on High Street; there many girls and women spent their working days; more, however, did the work in their own homes.

The bobbin or pillow lace was a distinctly local industry, but the "point net lace" ("point," because the size of the mesh varied according to the size of the points on the machine) or Ipswich lace, as it was called, was also done in many neighboring towns.

DARNED NET LACE

The net was stretched on a large frame; the pattern darned in with a glass-like thread, and the centers of flowers and many other motifs filled in with fancy stitches. The first patterns, as you notice in the illustration of a piece of the first darned net lace, were taken from the bobbin laces, they were very good copies too. Later they developed a style of their

ing made in large quantities in Italy, and called Sicilian lace.

Our bobbin lacemakers, with their well-trained hands, were at once pressed into service on this new work, and seemed quite ready to drop their pillows for the needle. Large quantities of net were darned, and today there is hardly an old family in Ipswich that cannot show some of their ancestors' work. The net adapted itself to a variety of shapes, and besides the edges of every known width and style, there are exquisite caps both for babies and old ladies, kerchiefs, collars and cuffs, wedding veils and gowns. A straight veil that hung from the brim of the hat must have been fashionable, for I have been shown several of these. The gowns were divided into breadths, and even then were a long, tedious task. The finishing of a large order was considered ample excuse for a village festival, bedspreads were hung from the windows, and the lacemakers made merry.

The darned net lace is really lovely, but incomparable in a craftsman's

(Continued on page 66)

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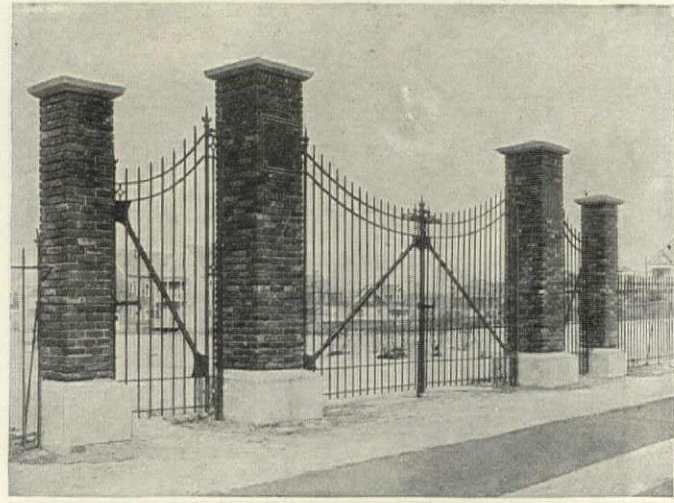
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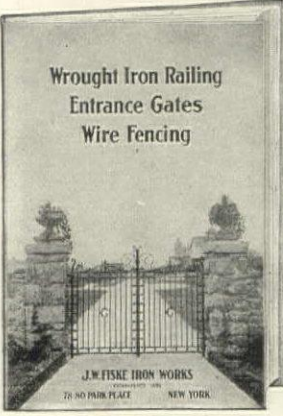
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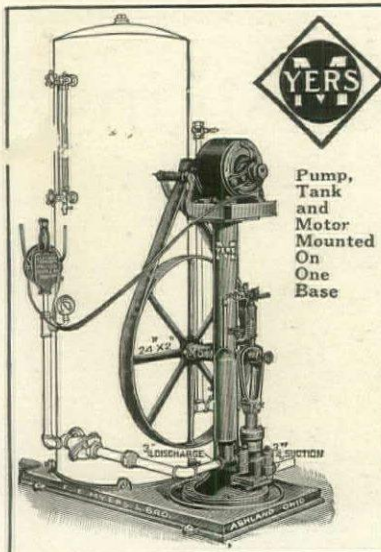


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Lasts Longest

GARDEN HOSE seldom wears out—it usually dies and falls to pieces. "Bull Dog" hose lasts longest because there is plenty of live rubber in it.

Here is an actual experience:

Read this letter

Chicago, Ill., April 29, 1915.
Gentlemen:—"I believe you will be interested in my experience with a piece of your Bull Dog hose which I purchased in Scranton, Pa., about fifteen years ago. When I moved to Chicago in January, 1905, I brought the hose with me, and it has been rolled up and tied with a rope for ten years, as I have been living in an apartment. This Spring we have moved into a house, and were about to discard the hose, but thought I would test it and see if by any possibility it would hold water. There is not a crack in it anywhere, and it is apparently as good as new.
"I find I need about 50 feet more, and will appreciate it if you will tell me what dealers in Chicago or Evanston, Ill., handle your goods." (Name on Request)

"Bull Dog" 7-Ply Garden Hose

Made $\frac{5}{8}$ in. with $\frac{3}{4}$ in. connections—18c a foot in 25 and 50 ft. lengths

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Your hose will serve you best when equipped with a "Boston" Spray Nozzle. It is easy to use, cannot get out of order and gives you a shower, spray or mist. 50c at your dealer's.

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Boston Woven Hose & Rubber Company

The World's Largest Manufacturers of Garden Hose
Cambridge, Mass.

Order from us direct if your dealer does not sell our hose

Early Lace-Making in America

(Continued from page 64)

eyes with the earlier work of the bobbins; the machine-made net lending a commonplaceness to it that an entirely handmade article has not. That infinite skill and patience are required to make the bobbin lace, one feels as well as knows.

At the present time, no net is darned in Ipswich, that industry having succumbed to the entirely machine-made lace that one buys so cheaply. The pillows, however, have never been totally relegated to the past. Fifteen years ago, the writer found several women who still loved

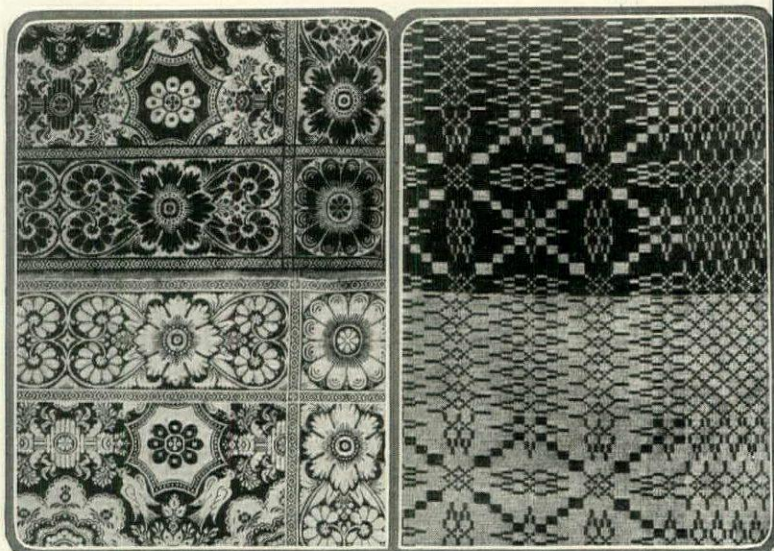
their pillows, even though the work they were able to do was very inferior to what had been done a hundred years before. We formed a little industry and interested other workers, who attempted more elaborate designs, but the old lace requires too much patience to gain a foothold in our busy American lives. There are, however, many kinds of bobbin lace that can be made and used in this everyday world that do not require either endless time and patience, and that are still very much worth while.

Handwoven Coverlets

GARDNER TEALL

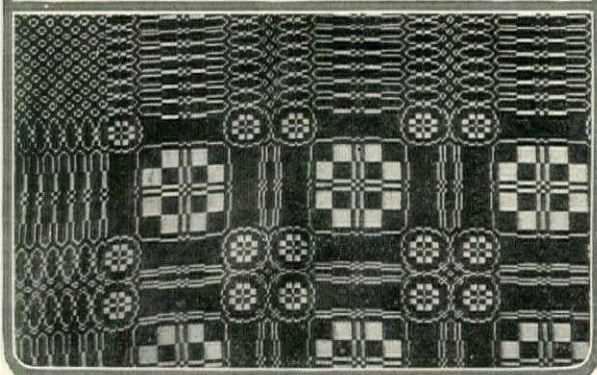
The collector who has been fortunate enough to make a pilgrimage through the villages of New England, visiting the antique shops in search of adornments to the shrines of their hobbies will recall the occasional handwoven coverlet that chanced to be displayed as the background to the ensemble of odds-and-ends.

icler of coverlet-lore, Eliza Calver Hall, wrote "Whoever tries to trace the rise and progress of art in the New World will see in the colors and designs of the hand-woven coverlet the first faint stirrings of that spirit which breathes full-awakened through the sculpture of St. Gaudens and Borglum, and the architecture of



"Bird of Paradise" pattern, showing both sides

A composite design popular with Southern weavers



The double "chariot wheel" or "church window" pattern with a double weave in blue and white

But one finds fewer and fewer of these old-time examples of handicraft. There have been eager but quiet collectors industriously seeking them out. Nevertheless, the collector has always a chance of coming upon an early woven coverlet, particularly in those remote quarters where local auctions (occasioned by momentous events and not merely foregone conclusions) still disclose the hidden treasures of yesterday and bring them within reach of the moderate purse. An enthusiastic and reliable chron-

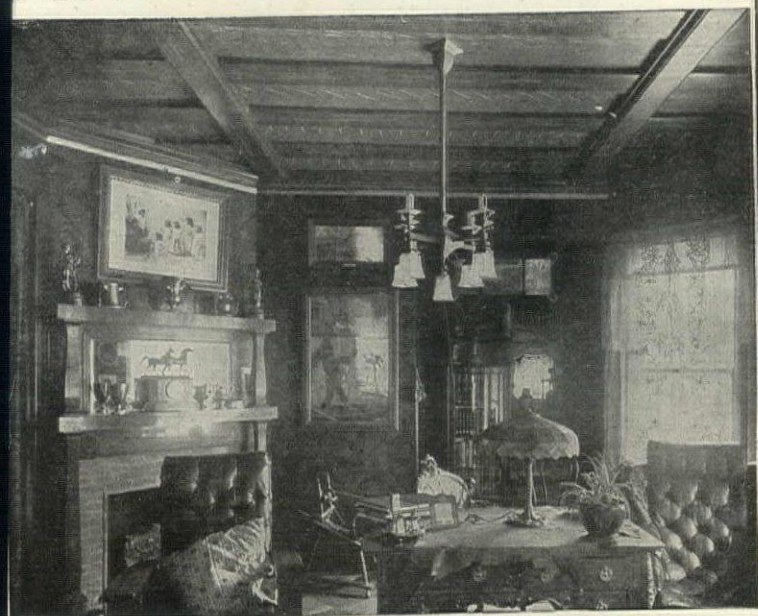
Richardson and McKim, and glows in the canvases of Whistler, Furness, Sargent and Abbey. 'Art is the wine of life,' says Richter, 'and the handwoven coverlet tells that the humblest artisan who kneels at the altars of Beauty receives from the hand of the god his share of that draught.'

From Colonial times the art of the handwoven coverlet was practiced wherever wool and industry suggested. The overseas traditions were faithfully carried out by the house-

(Continued on page 68)

April, 1916

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If these plants are set in your garden this spring you may reasonably expect to have blooms in June. Pot-grown Roses do not require cutting back at transplanting time, have plenty of roots to feed the plant and make it grow into a strong, vigorous bush.

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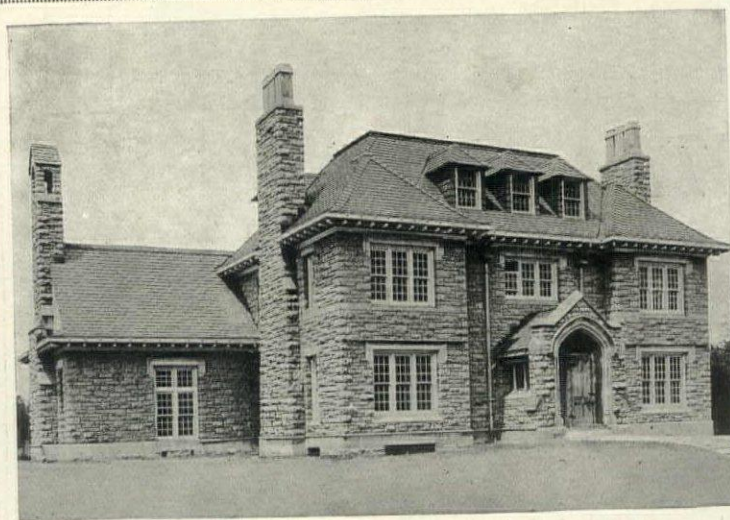


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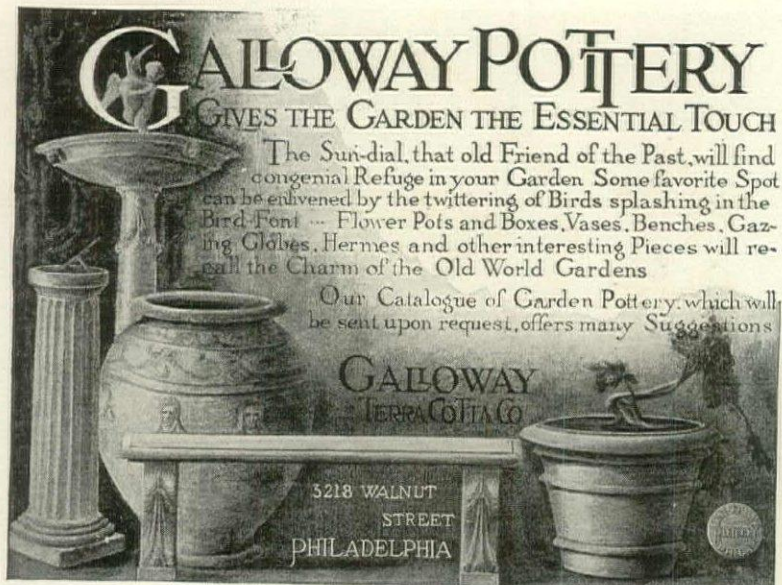
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It is free from all cracks or crevices that harbor insects, and can be cleaned just as easily and just as thoroughly as china.

Its doors and drawers never stick in any weather.

It provides a place for everything wanted at the work-table within easy arm's reach.

The "Royal Ossco" is equipped with glass knobs, padded noiseless doors, friction door catches, softly sliding drawers, and a disappearing table top of highly polished nickelene or opalite (opal glass). As shown it is also furnished with ample flour bin, assorted canisters, rolling pin and board, and other convenient accessories.

In economy of space, durability, sanitation, and service, the "Royal Ossco" Kitchen Cabinet is just as much superior to the old style racks and "built-ins" as the modern skyscraper is to the bulging frame factory buildings rapidly becoming obsolete

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Home Furnishings
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Hand-Woven Coverlets

(Continued from page 66)

wives of New England, and then Southward. There came to be modifications in the old weaving patterns as the ingenuity of those skilled in this handicraft developed. Indeed an enormous variety of patterns were evolved. Proportionately few of the very old hand-woven coverlets have survived—precious they are to the collector of household antiques!—but even these show remarkable pattern variations. Of course, the time came when machine-weaving supplanted handwork and before long coverlets hand-woven were of the discarded arts, so far as the New England states were concerned. A few years ago, however, the industry of the hand-woven coverlet was revived for the art had, in a measure, continued in the Southern mountains of the country. Many of the old-time coverlets were carefully copied and hundreds of new patterns also were devised. These later hand-woven coverlets are, many of them, of great beauty and intrinsically worth having even when one can also acquire the earlier specimens, for the modern hand-woven coverlet is, more often than not, indicative of the same artistic spirit with which the Colonial housewife endowed her work.

Blue and white is the usual combination in the old coverlets, though many of them introduced other colors, brown being the most commonly used after blue. This blue was home-dyed—indigo, and time has lent to many of the old coverlets a coloring comparable with that of the blues of Chinese porcelains.

With the aptitude for the determining details of fabrics of which every woman seems intuitively to be possessed, the woman collector will, in a probability, be able to distinguish a truly old coverlet from one of modern fabrication. In a few instances some unscrupulous antique dealer may claim antiqueness for an obviously modern coverlet, but the discriminating collector will be comparatively safe.

The collector will find old coverlets interesting as hangings, lounge-covers and for portieres as well as when put to their original uses. Fortunately indeed is one who chances to acquire a signed and dated example. Such a discovery leads the happy collector to haunt genealogical libraries until he has unearthed the mystery of its owner's place in history (for in the good old days the weaver was probably the owner as well).

Answers to Questions on Antiques and Curios

Readers of *House & Garden* who are interested in antiques and curios are invited to address any inquiries on these subjects to the Collectors' Department, *House & Garden*, 440 Fourth Avenue, New York, N. Y. Inquiries should be accompanied by stamps for return postage. Foreign correspondents may enclose postage stamps of their respective countries.

I. W. P.—Figures as well as flowers and insects were introduced as decorations of Chelsea, those modeled in relief being acquired and painted before the first firing, then enameled and fired again.

Owing to the fact that your tea service, however, does not bear the anchor, the Chelsea mark, or marks of any kind, it could hardly be identified as Chelsea, although the pieces really would have to be seen to determine their origin, as their decoration, coloring glaze and weight largely determine this.

There is no china that we know of that can be termed "penciled china." From your description, we assume that your saucer is a piece of transfer printed ware, namely, decorated by transferring a printed paper design on the saucer after it was glazed, this design for decoration being taken from a copper plate.

The piece was then glazed or enameled in the kiln the second time. This decoration resembles an engraving or, as you say, as though it had been drawn by a pencil in black outline. Liverpool ware was decorated in this manner.

L. M. S.—There was no one pottery that made the well-known Willow ware, although the Staffordshire potter, Riley, excelled in artistic excellence in the reproduction of this pattern. The Coughley pottery was the first English pottery to make this ware about 1780. It then became so popular that all other works throughout Staffordshire used it indiscriminately as a decoration for stoneware, pottery and porcelain. It was adopted from a well-known Chinese motif of decoration.

E. I. M.—The value of an old brass warming pan in perfect condition

would be from \$10 to \$15, depending upon its size and decoration.

Spinning wheels and flax wheels at present have only a sentimental value, as they seem to be in a very slight demand.

The swifts and hetchel would likewise only be regarded as relics of a former time, and would, therefore, really have no commercial value today.

Your description of the large chests with drawers stained red, suggests that they might be Hadley chests, an early American chest used by brides for their trousseau and linen, but these usually were carved with the initials of the bride, or even the name of the owner and date.

L. M. S.—The platter you speak of, is of modern make, that is, since 1891, as the word "England" was applied as a mark to the English china and pottery after the passage of the McKinley bill which regulated importation of this character and demanded that this imprint should appear with the other marks.

W. G. T.—The old flax-wheel which you say is not in perfect condition, and the old spinning wheel have but little value today, as there is very little demand for wheels of this kind, even for decorative uses. Some ten years ago they could be sold for from \$10 to \$25 each in good condition, but as their popularity has somewhat waned as decorative accessories, it would be difficult to say just what they would bring now, possibly only \$5 to \$10 each.

J. T. E.—From the description of your old china, we would say that the Ridgeway pitchers (early 19th Century) about 1814-1830, would be

(Continued on page 70)

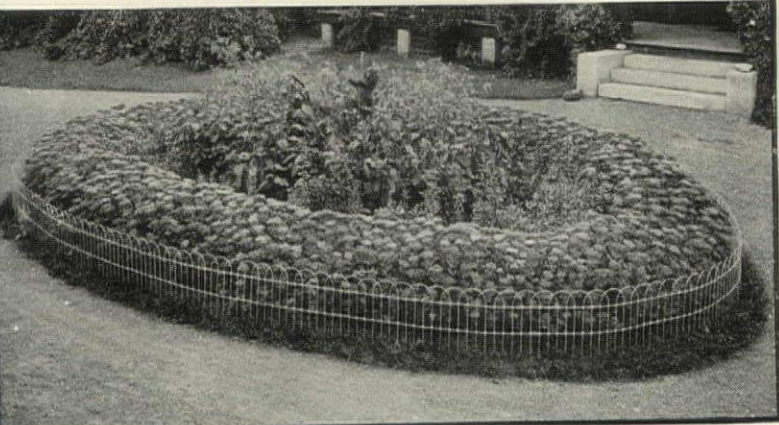
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Florists' Prize Mixture:—Light colors, whites, creams, light rose and delicate pinks, many with beautifully marked or pencilled throats. A mixture of exclusive quality. \$3 per hundred, \$25 per thousand.

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The Cornell Overhead and Underground Systems, equipped with patent Rain Cloud nozzles, provide thorough, scientific, economical and effective irrigation where and when it is wanted and do away with the inefficient and troublesome garden hose.

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with the system or the proper mowing of the lawn.

The Overhead System shown on the right is notable for the absence of unsightly overhead piping which interferes with the cultivation of crops and which contains small holes likely to become clogged.

Rain Cloud Nozzles supply a gentle rain at the turn of a valve, giving exactly as much water as your garden needs, and no more, at the time and spot desired.

Cornell Systems are inexpensive and economical in operation and represent a distinct saving in water consumption and cost of labor, by reason of even distribution and simplicity of control, the turning of a valve being the only operation. They can be installed at any time without injury to lawns or gardens.

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Rain Cloud
Nozzle used on
White House
Grounds.



Underground System for Lawns



Overhead System for Gardens

W. G. CORNELL COMPANY

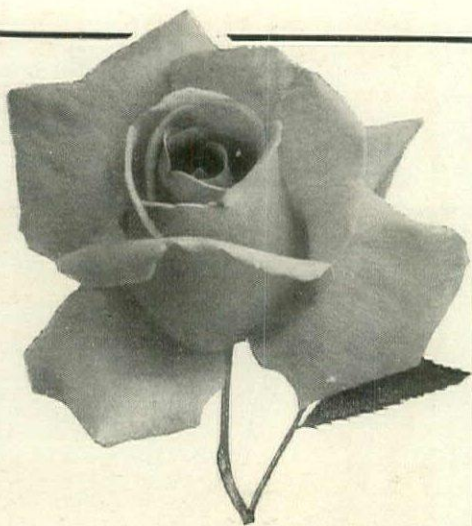
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ARKANSAS SOFT PINE BUREAU
LITTLE ROCK, ARK.

Satin-like



Interior Trim

Answers to Questions on Antiques and Curios

(Continued from page 68)

worth about \$10. The small deep plate which you assume to be modern is probably of a minor French make, and as such would have little value to collectors. We would have to see the plate before placing a value on it. The Staffordshire saucer is probably early 19th Century, and would be worth possibly \$2.

E. V. V.—The two engravings, "Lady Washington's Reception," engraved by Ritchie, and "Washington Standing on the Steps of Mt. Vernon," would be worth about \$10 each. The small engraving of Yale College would have a market value of about \$1.00, and that of the Pierce Academy, Middleboro, Mass., practically none, as it would only be of interest to a graduate of the acad-

emy or someone associated with. The small sampler, signed and dated only with the day of the month would be worth from \$5 to \$8 in the size. The Hepplewhite card table, an original Hepplewhite date from 1790 and would be worth from \$50 to \$75 depending upon the condition. The tall mahogany secretary seems to be late Georgian (late 18th Century) as well as we can determine from the photograph, and will be worth from \$125 to \$150. The mirror if of English make would be of the late Queen Anne (1715-1727); if of American make, and a copy of this type, it would probably have been made about 1790-1800. We would have to see the mirror, however, to actually determine its origin. Its value would be about \$25 in either case.

The Best Shrubs for All Places

(Continued from page 29)

June. One of these suitably placed at the side of the lawn is as lovely a thing as you can choose for the suburban plot. And it is lovely all the year through, for it is of sturdy growth, agreeable even when no leaves cover its frame.

The other is the variety of crab known as Bechtels, *Pyrus ioensis* Bechtels, a trim little tree in form, but actually no larger than many shrubs. Its beauty when in bloom is quite beyond words; if pink rambling roses grew on trees and all blossomed at once, they would not be more delightful.

VARIETIES FOR NATURAL MASSING.

Shrubs to be massed *au naturel* will be of the more spreading type of growth than those just mentioned. Starting with the viburnums, varieties *molle*, *opulus*, *prunifolium*, *lentago* and *lantana*, are all of easy, flowing habit and well suited to background use. The very largest are the last two, and plants of these used at the back of a mass will not need to be nearer together than 4'. Of the cornels there are the red branched *Cornus sanguinea*, the silky *Cornus sericea*, which blooms later than the others, *Cornus paniculata*, which has

attractive foliage rippling distinctly at the margin, and *Cornus sibirica* which is perhaps the brightest red in branch of all. Of these the first is the largest in growth, ranking pretty well up with the two large viburnums.

Hawthorns should find their way into every group, likewise to the edge of every group where they will show a spot of color now and then against the solid mass. *Crataegus carrierei* is a good variety which holds its leaves until late. Its flowers are large and turn from their pristine white purity to a pink as they mature. Scarlet fruits follow them. Old-fashioned sweet syringa, which is not syringa at all, but *Philadelphus*, lilac being the true syringa, can never be overdone if one is fond of its fragrance.

Lilacs are at their best when forming a thicket of just themselves, and I do not use them ordinarily amongst shrubby masses. Use as many as you can of the ordinary *Syringa vulgaris* at the back, *Syringa persica* against this (and, of course, somewhat intermingled) and *Syringa josikaea*, which blooms last. Other good shrubs are bush honeysuckles, *Lonicera morrowi* and *Tartarica*; spiræas *Thunbergii* and *Van Houttei*, the first blooming before its leaves are fully out and the latter in early June.

Your All-Year Garden

(Continued from page 52)

If wet or cold weather keeps you from getting the early stuff out as soon as you expected, and the frames, consequently, become over-crowded, make temporary ones in a sheltered place, using old boards, boxes or almost anything to keep out the cold and wind. These temporary frames may need covering at night, but protection during the day is seldom necessary at this time of year. Old sash covered with blankets or rugs or frames covered with cloth will keep off several degrees of frost at night and that is all that is necessary. Do not, however, forget to water the plants in their makeshift quarters. They will dry out much more quickly from having been moved than they would have done before. Loosening up the ground in a temporary frame and setting the plants tightly in it will help somewhat in this respect.

ROSES AND OTHER HARDY THINGS

If your rose garden was properly protected last autumn, there will be no long branches and shoots that have whipped around during the winter and become broken and beaten down onto the soil. If such a condition should exist, however, the first

thing to do is to go over the bed now and give it a preliminary pruning sufficient to make each bush stand separately so that you can get at it and around it. Do this before you disturb the mulch.

The mulch can be removed from hardy beds and borders now, although in the case of tenderer things it will be well to wait until later on. If a manure mulch has been used, simply shake out the rougher part of it with a fork, leaving the finer parts of it to be dug into the bed. If it is a straw mulch, remove the straw carefully; any of it left around will be a nuisance and an eye-sore. Since the hardy border furnishes its own shade during the summer, it is unnecessary to keep this mulch for use later on as is usually desirable in the case of the rose garden. Give an early forking up—such roots as may be broken or cut now will be less injurious to the plant than would be the case later on after vigorous growth has started.

A great many borders become overcrowded after a few years. If you have any such that were not newly planted last fall, get after them at the earliest possible moment.

April, 1916

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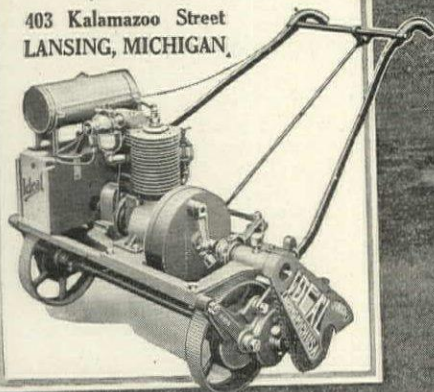
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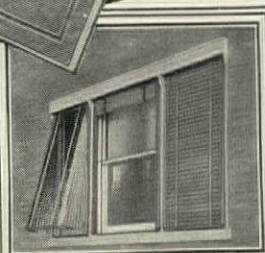
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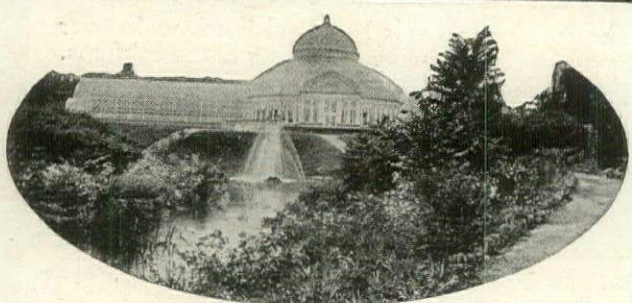
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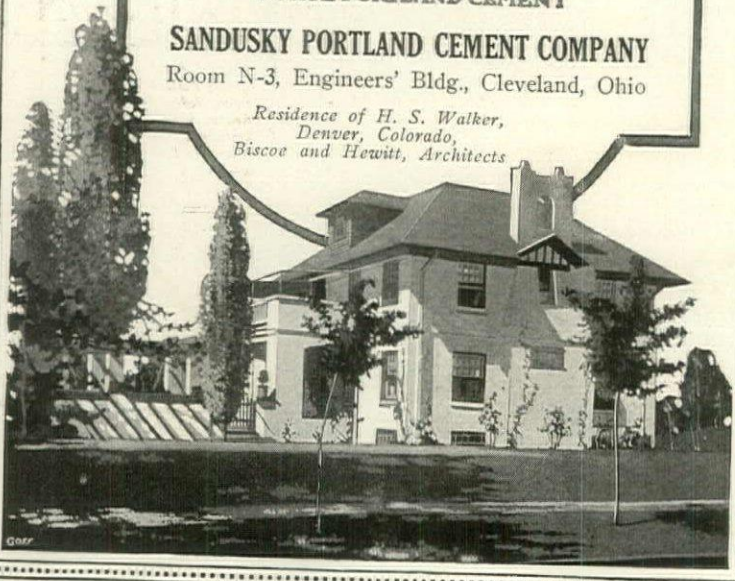
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Offered—12267. Incomplete set old blue English China, with pictures of Cambridge and Oxford College, I. & W. Ridgeway, makers. Forty pieces, twenty-seven plates, six platters, largest soup tureen, etc. Also very old set ivory chessmen, large pieces, 6" high.

Offered—12268. Antique mahogany sofa (Colonial, \$125); also post colonial bureau with large mirror, brass handles and knobs, \$75. Both in excellent condition.

Offered—12269. Large cherry chest of four drawers 3' 10½" high; three beautiful old sewing tables—two walnut, one has front sides veneered with burl walnut, both have two leaves and two drawers; cherry one has two leaves and one drawer, octagon shape legs.

Offered—12270. One 5' walnut sofa; two rush bottom chairs; one crotch mahogany sewing table; one 9' crotch mahogany davenport, hexagon posts, upholstered in green silk

velour, a very elegant piece; one rosewood rocker, upholstered in green silk velour; one crotch mahogany bureau secretary, brass ornaments, claw feet and broken arch top; one Willard hall clock in walnut, 8' high, brass works and ornamental, 135 years old; one crotch mahogany highboy; eleven pieces old china; Wedgwood pink lustre, etc.; several hundred old stamps. All the furniture named is an unusual find and is in perfect condition.

Offered—12271. Six window chairs, delicate, round top (one arm chair), \$50; other window chairs of unusual design duplicate of well known collection, \$10. Paisley shawls; few other antiques.

Offered—12272. Two tall clocks, one mahogany, brass works, bonnet topped, in running order, \$80. Other is English clock, flat top, English walnut, has not been running lately, \$60. Colonial antiques, window chairs, settees; six delicate design chairs; one arm chair, unusual design.

The Book's the Thing

(Continued from page 32)

quate writing accommodations. A writing table will be more commodious than a secretary, and there are many available, either with or without drawers at the sides. Remember, too, the writing chairs of various kinds. For appearance and solid comfort none can surpass the old Windsor type, with a broad, flaring right arm to hold paper or books. At the same time, by way of suggestion, might be mentioned easy chairs with adjustable book-rests attached and also the small reading tables with a ratcheted book-rest that may be set at any desired angle.

The portable book rack, meant to hold a few of the latest books, and intended to stand at a sofa end or beside a table or easy chair, is a small library accessory worth considering. Magazine racks, of one sort or another, are a desideratum. Racks like those on the backs of church pews, only deeper, fastened to the wall beneath windows, answer the purpose admirably.

In front of the fireplace, and facing it, it is well to place a comfortable sofa. Close against the back of the sofa may be placed a long library table, perhaps of the Spanish or Italian Renaissance type, or else a writing table with its side drawers. On it should be set a well shaded lamp or lamps so that the light will fall both on the table and over the shoulder of anyone reading on the sofa. All lights should be well shaded and placed fairly low, so that there is no unpleasant glare in the upper part of the room. At the ends of the sofa, if there is room, may be set small tables for flowers, lamps, books or smokers' articles.

If chairs are placed at either side of the fireplace, be sure that they are comfortable and inviting. Nothing is more tantalizing than to find stiff, uncomfortable chairs in the positions naturally most attractive and toward which one instinctively gravitates. The note of comfort should be emphasized in the library in every possible way, especially if, as is so often the case, it does duty as a living-room.

WALL TREATMENT

Avoid patterned paper for the walls. They should be kept quiet and restful. That is one advantage in panelling for library walls, either painted or in natural finish. Pictures should be chosen with the utmost care, kept few in number and their subjects obviously in accord with the purpose of the room. Old prints in unobtrusive frames are especially appropriate. If paintings other than portraits are used, let them be in quiet tones, unless they are intentionally of a striking, decorative character and intended for some special point of emphasis. Eschew glittering landscapes in garish, gilded frames, hung conspicuously in spaces that had better be left free. A bit of tapestry or of old Oriental brocade or embroidery is always well placed on a library wall.

If the bookcases are low, be vigilant to keep off their tops an excess of disquieting and meaningless bric-à-brac. Stick rigidly to the resolution to have but few things, and those good. All hangings should be dignified and quiet in tone, and strong, blatant colors in any part of the room are to be shunned.

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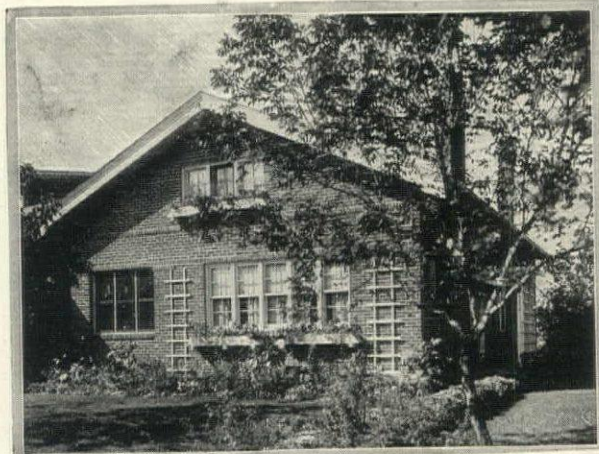
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(Continued from page 45)



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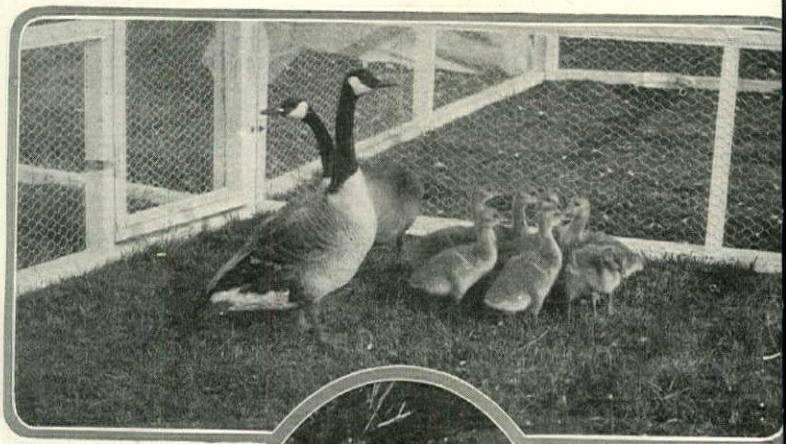
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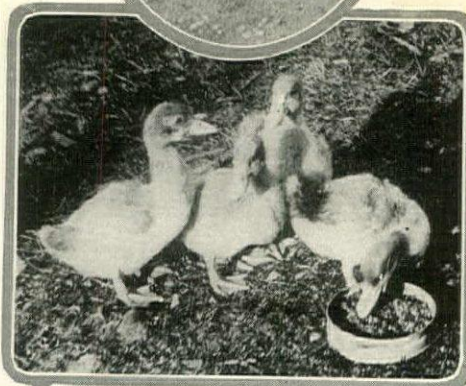
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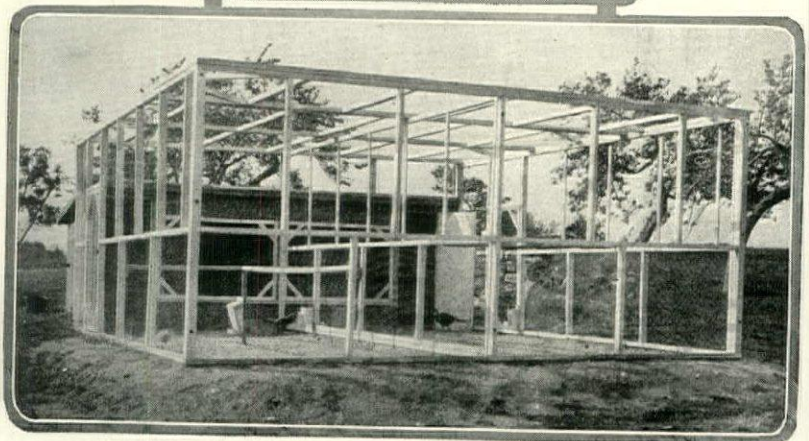
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An excellent model pheasant house, 18' x 6' on the floor, with covered double yard. The whole affair is portable and costs about \$150

noon, and it is a wise plan to keep everybody away from the aviary at that time of day. For if they are frightened or excited, the hens are likely to cease laying entirely. Nests are sometimes made in the sand, but often the eggs are dropped promiscuously, sometimes from the perches. It is often recommended that hiding places be made by throwing evergreen branches in the corner of the house, but the birds are more likely to ignore them than to lay their eggs there. As pheasants often develop the pernicious habit of eating their eggs, it is wise to gather them promptly each day. Laying commonly commences early in April and may be continued through July.

The eggs may be kept safely for two weeks before they are set, and

those laid by the ring-necks can be expected to hatch well after being shipped by express. This is not true of most other breeds, however. Pheasant eggs are best hatched under bantams or the funny little hens called Silkies. The latter are much liked because they are not much troubled with vermin. Incubators are sometimes used successfully and it is not a bad plan to take eggs from under a hen and put them in an incubator a week before hatching time. Then the poults can be raised in a brooder and there will be no lice to prey on them, at least for a time. The danger from lice must be emphasized, because poults are not strong enough to resist the ravages of these pests, and quickly succumb

(Continued on page 76)



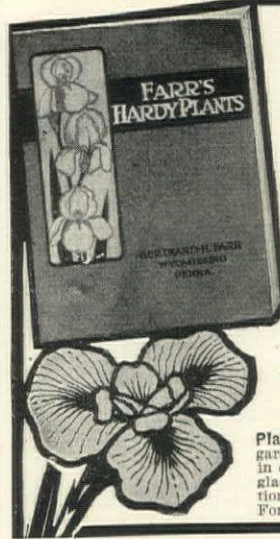
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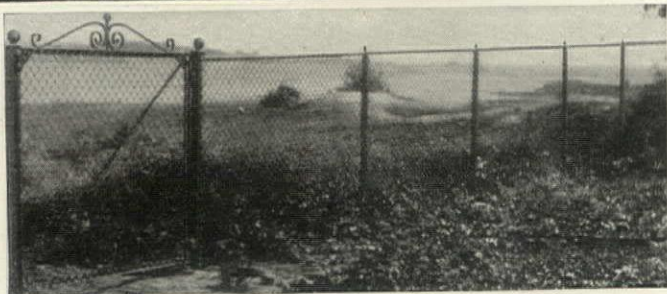
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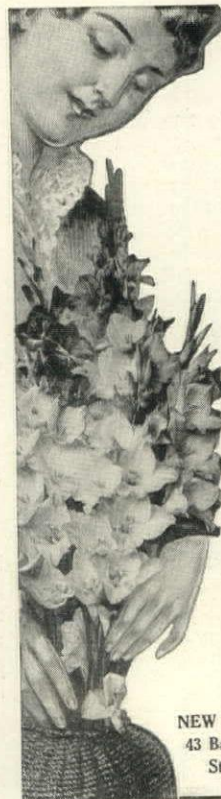
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\$12 a ton in bags \$8 a ton in bulk by carload



Alphano Humus Co.

ESTABLISHED 1906
17-E. Battery Place, New York

Beau Brummels of the Poultry Yard

(Continued from page 74)

to their attacks. Setting hens need to be dusted once a week with insect powder and as soon as the poulters are a day or two old, the tops of their heads must be touched with a little vaseline.

The best nesting box is one with high sides all round or else a low one with a circular wire netting 1' high all round it. One reason for this is found in the fact that when young pheasants hatch they almost pop out of their shells and in a short time are running about. Unless confined, some of them are almost certain to stray away and be lost.

It is wise to keep young pheasants under cover several weeks, although if hatched as late as the latter part of May, they can be put outdoors in coops right away. They must not be allowed to get wet or chilled, however, or their earthly existence will be brief. Also, they must not be placed on tainted ground, that is, ground where poultry have been running, unless some green crop has been grown there. Poisoned soil, dampness and vermin constitute the fatal triad responsible for the untimely demise of most pheasant poults that fail to grow up.

All sorts of complicated methods of feeding pheasants have been advocated and many breeders keep maggots on hand for them all the time. This is quite unnecessary. Hard boiled eggs, stale bread soaked in milk and squeezed dry, oat flakes and dry bran with finely ground Hamburg steak three times a week will keep the poults thriving until they can eat the same kind of rations that the chickens get. There must be no lack of green stuff, however, from the first. It is even more important than when chickens are being raised and there must be grit and charcoal as a matter of course. Although delicate at first, pheasants are exceptionally hardy when well feathered.

Of course, prices vary in different parts of the country and in different seasons, but it may be said in a general way that ring-neck pheasants are worth about \$8 a pair, while goldens and silvers sell for from \$15 to \$18. About \$25 is usually obtained for Reeves pheasants, while Lady Amherst sell for as much as \$35 a pair when in full plumage. The price is usually reduced several dollars when the birds are not in feather.

Although peafowl are closely related to the pheasants they have more domestic habits and have been kept in this country for generations. Few birds are more beautiful or better acquainted with the fact. Indeed, his vanity is one of the things that makes a peacock interesting. On every large estate there is a place for a peacock or two, but these birds resent confinement and must be allowed to roam. They subsist readily on regular barnyard fare and spend their nights in the trees. As peacocks do not get their trains or fans until the third year, they should not be bred until then. The peahen will set on her own eggs and bring off a brood in about twenty-eight days. Peacocks live for twenty-five years or more, so it is not necessary to buy new stock very often.

THE WATERFOWL

Coming now to the waterfowl, which surely deserve consideration on every country place of any size, the beginner finds a long list of interesting and attractive birds offered by the breeding farms. Comparatively few are to be recommended to the amateur, and the rarer kinds, as well

as those difficult to manage, will not be mentioned here.

Doubtless the mallard is the best of all water birds with which to make a start, for it is one of the easiest to raise. Mallards have been hatched successfully in incubators for some years and reared with equal success in brooders. In their wild state they are supposed to mate in pairs, but when domesticated they soon become polygamous and breed very freely. A few of these ducks may be kept around the house with only a tub for water. They do no harm in the garden, but, on the contrary, consume a vast number of flies, mosquitoes and garden pests, and they are distinctly ornamental as they roam about. Old ducks may be kept at home by pinioning them, and the young will usually stay close by in any event.

RAISING WOODDUCKS

Woodducks are not so easy to raise, but there are several reasons for working with them. In the first place, the wood duck is one of the handsomest creatures that wears feathers, carrying many colors, including purple, green, black, white and chestnut. In the second place, it is wholly an American bird, summering and wintering within our borders, and was well on the way to extermination before united efforts to save it were undertaken. Woodducks may be induced to breed on large estates by putting up nest boxes made to represent hollow logs. In their wild state the ducks nest in trees and often carry their young down to the water. When woodducks are kept in an aviary in a small place, a moderate sized pool will answer their needs if the water can be kept fresh, and a wired yard 8' x 10' will accommodate half a dozen of these wonderfully handsome birds. The yard must be wired over if the ducks are not pinioned, and a box with a few evergreen boughs thrown over it will provide all the shelter needed, even in winter.

Curiously enough, mandarin ducks, which come all the way from China, closely resemble our native woodducks, and it is difficult to decide which is the handsomer. They may be cared for in the same manner, but the mandarins require the greatest seclusion in order to breed freely. It used to be supposed that mandarins must have a warm house, but that is not the fact. They need dry quarters, though, and shelter from the wind.

Of course, the ideal aviary for any of these birds is one with a good sized pond or pool and shrubs growing around it. It is not difficult or very expensive to make a pool with cement, for it need be only 2' deep. Even a tiny aviary is a joy and pleasure when stocked with woodducks and mandarins, but if other ducks along with Canada geese, Chinese geese and possibly swans can be kept, it will be still more attractive. Among the easiest ducks to raise are Indian runners and muscovies, which are thoroughly domesticated and may be allowed full liberty if there be no garden for them to trespass on. Both are handsome as well as useful, but the muscovy sometimes becomes rather domineering. Woodducks and mandarins are not cheap, costing about \$25 a pair. From \$4 to \$6 will buy a pair of mallards, while Indian runners and muscovies are still cheaper.

White Chinese geese, which cost about \$10 a pair, may well be classed among the ornamental waterfowl, although they serve utilitarian purposes as well. Doubtless the white variety

(Continued on page 78)

April, 1916



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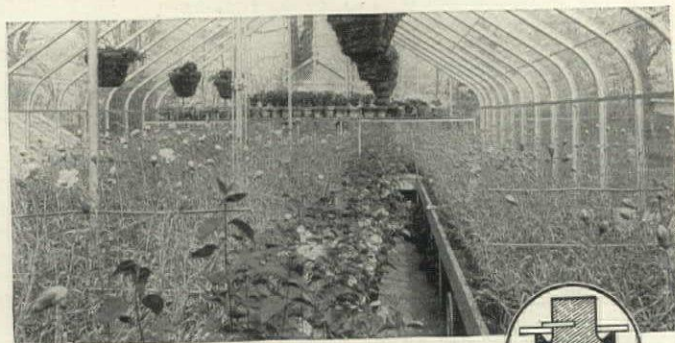
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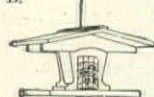
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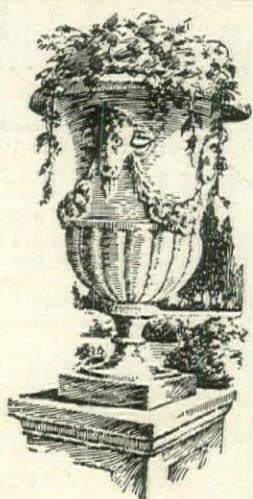
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THE J. L. MOTT IRON WORKS
Fifth Avenue and 17th Street, New York

MOTT

Beau Brummels of the Poultry World

(Continued from page 76)

is the handsomest and its most distinguishing characteristic is a large knob on the head. Egyptian geese are commonly given a place among the ornamentals, but they are even more pugnacious than the Muscovy ducks and are almost sure to start a wholesale slaughter if placed in an aviary with a lot of miscellaneous birds.

Naturally everybody who thinks of ornamental waterfowl gives swans a place near the top of the list. Swans there should be, as a matter of course, if a fairly large pond or pool is available. They look out of place, however, on any water that is less than 50' across. The common mute or royal swan is the variety to be recommended and a pair will cost about \$40. It is a common belief that swans need more or less coddling, especially in winter, but that is a mistake. They are quite as hardy as geese, though more stupid, for they will sometimes allow their feet to freeze to the ice. No housing is necessary even in the coldest weather, but a rough shelter may be sometimes sought. One feeding a day of ordinary mixed grain from the poultry house will keep them thriving, especially if they have a lake or stream in which they can find

various kinds of vegetable and animal life to their liking.

Although cranes are not really waterfowl, they are commonly classed as such and love to wade in the water. They are fairly hardy and may be kept through the winter with only a little shelter to protect them from storms. This applies to most varieties, but a few kinds like the Stanley and crowned crane need warm houses and are best omitted from one's list unless conditions are entirely favorable for them. Pelicans are highly amusing and interesting birds and so easily tamed that they soon become great pets. Unfortunately, they can be kept only where they can have heated quarters in winter. The birds named are probably the best to begin with when an aviary is being stocked, but in time others like green-winged teals, black East India ducks, pin-tail ducks, dusky mallards and redheads, costing from \$8 to \$18 a pair, will doubtless be added. Indeed, when one becomes thoroughly enthusiastic over the keeping and rearing of ornamental land and water fowl, he seldom knows where to draw the line and adds to his collection as fast as his pocketbook will allow. Few hobbies are more fascinating.

The Choice of a Style for a Country House

(Continued from page 13)

fit a projected house of preconceived architectural style. One is not always free as to the method, for obvious reasons and limitations. It is, however, a pleasant thing to picture in the mind's eye the sort of a house you would like to live in and then to set about selecting a site that would be ideal for just such a house. In all this the architect can be a great deal of help, if you will take him into your confidence.

But even before you start to imagine your house, you should take into account just the sort of family life it is to accent. Some small families live in large houses and some large families in even smaller houses. Where a house is sufficiently commodious for the family itself, it may still be too small for much or for any entertaining. After all, unless a man is a hermit, he does not build his house for himself alone. He is a member of the society of human beings, and that fact causes him to take into account the factor of sociability that will enter into his life and into that of his family. And in the country, quite as much as elsewhere, he will have this impressed upon him.

Let him think of this, then, when he starts out to think up the sort of house he will have. Perhaps he goes to live in the country to enjoy natural surroundings and to be free from the tyranny of town. Well and good; but he will wish to enjoy country life in communion with his fellow-beings, and not as a recluse. Questions of hospitality, then, will enter the alembic of his plans for a house, even when projecting a little cottage. Already he knows he must have good chimneys; a large, dry cellar, a tight roof and sound architectural structure.

THE YEAR ROUND HOUSE

Not only must he consider how the house will feel in winter as well as in summer, but he will also wish to know how it is going to look at all seasons of the year, particularly if he is to spend the year 'round in the

countryside. Then, too, his house must fit the landscape, just as the house must fit him, the individual. In olden days a cottage dweller was thought of as a poor man. In our own day the cottage type of architecture evolved along the lines of various architectural styles, has come to be the typical type of the home of the well-to-do.

REGARDING ARCHITECTURAL STYLES

The modern house in the country (this is excluding from consideration the palatial show-places of a modern Midas) seeks a character devoid of pretense, without sham and free from the superfluous. Simplicity, not grandeur, is the charm of the modern home in the country. The matter of economy in space has of necessity been much more studied by the present-day architect than by his predecessors. This, again, is a matter for consideration in settling on a style for a house. Fortunately the various styles are compounded of features that permit an almost infinite variety of effects which, though the *ensemble* may immediately be recognized as Georgian, Tudor, Dutch Colonial, or whatever it may truly be, may be rendered adaptable to the site and to other considerations through the skill of a good architect who has a mastery of their handling.

Broadly speaking, there are those who consider the Georgian or the Colonial styles formal, the half-timber style informal and the Dutch Colonial a combination of both qualities. However, dignity of aspect, such as we find in Colonial architecture, need never freeze to formality, nor need the half-timber style ever preclude formal use any more than it did in Elizabethan days.

That there is current much theory on the subject, both in print and in practice, is to be found by the inquirer, but after all the main thing to seek in choosing a style for a house in the country is the ability of that style to endow the house with an added sense of homelikeness.

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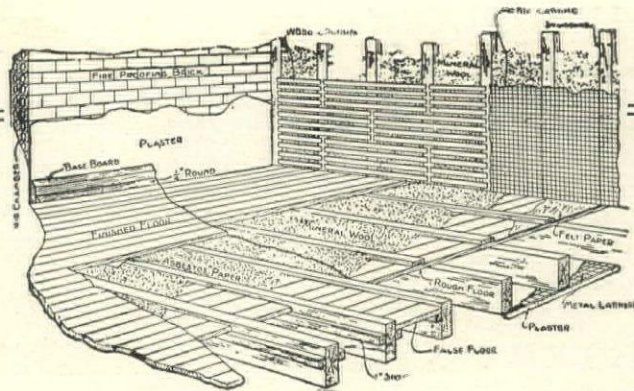
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Wagner Park Nursery Co., Box 874, Sidney, Ohio

POULTRY WORK FOR APRIL

Keep the chickens dry.

Give them plenty of greens.

Above all, keep them free from lice.

Pen the ducklings in a low yard made of boards.

Try raising them on dry mash, if the flock be small.

Set guinea eggs toward the latter part of the month.

Watch for the first pheasant eggs this month and remove them.

Set turkey eggs under hens, the turkeys being allowed to sit later in the season.

Give the turkey breeders free range if possible, but shut them in their houses at night.

Put down eggs while they are plentiful and the price low. Water glass is the best material to use.

IT is the best thing in the world for chickens to be out on the ground, but it is not a good thing for them to trail through grass wet with dew. They need dry houses and dry yards. If they are to be kept growing steadily, they must be fed and watered faithfully and must have an abundance of green food. Chickens on a grass run will eat the young grass, of course, but those confined need lettuce, spinach, grass clippings or even sprouted oats. No matter how good care they get, though, they will not thrive if pestered with lice. Coops must be kept clean, too, or the red mites will multiply into millions.

April is the month to hatch the winter layers in practically all the Mediterranean breeds, which comprise Leghorns, Anconas, Campines, etc., etc., as well as for show purposes. In fact, some of the largest breeders hatch their greatest winners in Wyandottes, Reds, and Rocks this month, as the weather is ideal for the purpose and it is Nature's own period for incubation.

DUCKLINGS, GUINEAS AND TURKEYS

Young ducklings with a hen are best confined in yards made of low boards over which the hen can fly. The ducklings really have but little need for the hen, except for a heating plant. With only a small flock, it is a good plan to raise the ducklings on dry mash, feeding it three times a day.

Guinea chickens are delicious table birds, being offered in the restaurants as a substitute for game. They are easy to raise with a hen, though they will follow her until full grown. It is worth while raising a few guineas just for the table. Twenty-five days are required for hatching the eggs, and incubation should start the latter part of the month.

It is hardly worth while trying to hatch turkeys before April, and eggs set this month would best go under common hens, the turkey hens being allowed to sit later in the season. The incubation period is twenty-eight days. Turkey hens should have

a wide range but should be shut up at night.

SAVE THE EGGS

It pays to put down eggs for winter at this season, when they are plentiful and cheap, and the water-glass method is the best. One part of water-glass from the drug store is mixed with nine parts of fresh boiled water. The eggs are placed in a stoneware crock and the water-glass solution poured over them. It is important to have the eggs fresh and clean. They may be added to the crock from time to time as gathered, but there should always be at least 2" of fluid above the top layer of eggs. If the crock is kept in a cool place the eggs will be found in excellent condition six months from now, but if they are to be boiled a needle hole should first be made in one end.

BROODY HENS

Broody hens are no longer ducked in the horse trough and otherwise maltreated in order to break them up. Instead, they are placed in open coops with slatted bottoms, on which they do not enjoy sitting. If the hens are two years old, the most profitable plan may be to sell them as soon as they get broody.

This is a good time to give the poultry houses a thorough cleaning. The manure is excellent for grass land if mixed with its bulk of earth before being spread, and it may be used to advantage in growing corn if placed in the bottom of the hills or drills and covered with an inch of earth before the seed is sown. With artificial fertilizers abnormally high this year, it pays to save all the natural manures.

Baby chicks purchased this month have unusually good prospects, because the weather is mild and they can be kept out-of-doors much of the time. A broody hen will often accept such chickens if they are put under her at night. It is wise to experiment with one or two of the youngsters, however, in order to ascertain the old hen's intentions. She may try to kill them.

The Dog That Chews

How often do we hear the lament: "That puppy tears up everything he can get his teeth on! I don't dare leave him alone in the house for a minute, for fear he'll chew the ends off the rugs or swallow half the divan cover. Last week he tore open a sofa pillow and spread its feathers all over the living-room. Is there any way to cure him?"

As an actual fact, almost every pup that has ambition enough to grow into a worth-while dog passes through a stage of development wherein he seems unable to resist an opportunity to exercise his teeth on whatever comes handy. Often whippings and scoldings have little effect; when the culprit again finds himself alone within reach of a dangling table-cover or an up-curling rug—well, he

just listens to be sure nobody's about, considers a moment, and "goes to it."

For the consolation of all chewing puppy owners it may be stated that in the great majority of cases this destructive habit is outgrown. It may last for a week, a month or a year, but don't lose hope. Punish the pup when you can catch him in the act, and remove the temptation or the dog, whenever possible, before the damage is done. Do everything possible to discourage the chewing and tearing of things, and never encourage the pup to such activities by inviting him to grab the south end of an old glove or rag, while you violently agitate the other, somewhat after the manner of a runaway aeroplane.

R. S. L.

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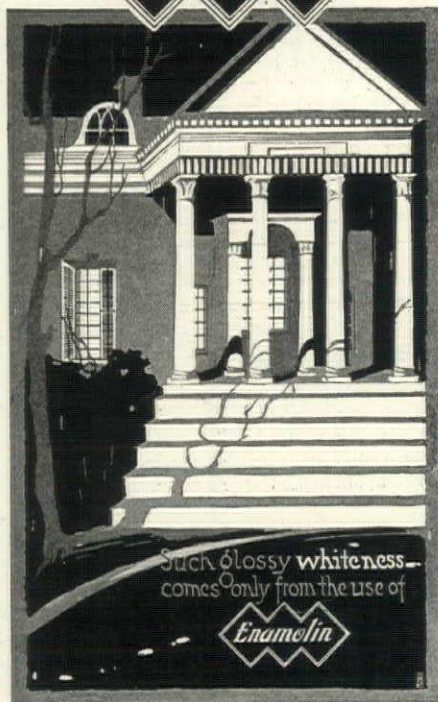
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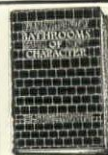
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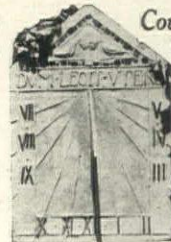
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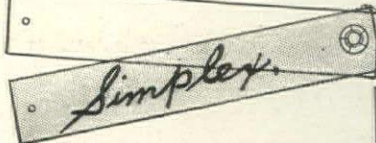
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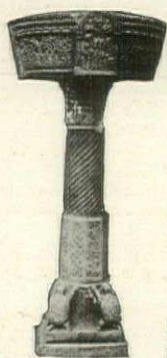
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J. K. ALEXANDER
 425-435 Central St. East Bridgewater, Mass.

Efficiency Standards for the Tomato Patch

(Continued from page 40)

usually serve the purpose. If the setting of crown clusters proves unusually heavy later on, it pays to string an extra wire between the first and second lines, causing the first three wires to be 6" apart. This enables the grower to tie the heavy clusters to wires as well, a support often badly needed, especially with the larger fruited sorts.

Under the wire trellis method of cultivation, plants are set 12" to 18" apart in the row, depending on how rich the soil is. The richer the ground, the closer together may the plants be set. When the plants have made sturdy upright bushes, say 2' high, with plenty of branches, then is the time to prune and tie. The plants are reduced to two of the strongest and most promising branches, and the branches nearest to the base of the original center stalk are always given the preference for the reason that they are the closest to the "source of supply." In other words, plant foods travel quickest via the shortest route. Even if stouter branches farther up on the plant should claim your attention for preference, cut them out and give the "nearest home" branches the preference.

WORK BEFORE HARVEST

From the time this initial work is done, to the first week in September, the patch should be gone over about once a week, oftener in fine growing weather. Remove all side shoots or "suckers" which will appear at both the base of plant and the leaf joints. They all deprive the plant of energy needed most in the developing of clusters, while the flowers which they bear develop into marketable fruits only in rare cases during exceptionally long seasons. Beginning early in August, when the plants reach the uppermost line of wires, begin to prune the center of the main stalks as well, so as to throw the strength of the whole plant into the fruit already set.

The individual stake method differs from that just described by having the plants set 2½' to 3' apart each way. A stout 5½' stake is driven within 1" of base of plant as the time for the first training and pruning draws near. Then prune as directed above, but where a plant has 2½' x 3' space in each direction, it will develop three branches just as well as two under the wire trellis method. Prune your individually staked plant to three branches, therefore, and you may expect, on an average, three clusters of four fruits each on every one of the three branches, or a total of thirty-six fruits per plant. Of these thirty-six fruits, under careful cultivation and in favorable seasons, thirty-three should reach marketable size in due time, and quite a percentage should command premium prices, depending upon the time of maturity of the fruits.

Before passing on to the choice of varieties, let me say a few words about cultivation. Early in the season, hoe quite close to the young plants. In fact, it pays to keep the patch or field free from weeds all the time. But along in July, when the first clusters have developed and the plants have reached the top of their supports, keep farther away from the plants. The soil for a foot in each direction around the base of plants will be found literally undermined with fine feeding roots. To disturb these seriously by either hand-hoeing or cultivator teeth,

means to deprive the plant of a source of food supply badly needed just then to ripen early clusters and develop later ones.

THE CHOICE OF VARIETIES

When embarking in the business of growing tomatoes for either home use or market, ask yourself, "What do I want?" There are pink or purple sorts, bright reds or scarlets, yellow sorts and a large number of small-fruits kinds. The last two are of small value from a commercial standpoint. Yellow tomatoes are comparatively tasteless. So be sure to decide for what purpose you want the fruits, and then choose your sorts. Some markets pay a premium for purple fruits, others demand bright reds. All markets pay most for the extra early fruits, regardless of color.

The foremost purple sorts may be divided into early, midseason and late. We now have perfectly smooth sorts of uniformly symmetrical shape in each division, although June Pink, the standard extra early, still shows a tendency to produce some rough-skinned fruits on the crown clusters. But since June Pink, together with Earliest Pink, a strain of it in great favor in New Jersey, is absolutely in a class of its own for earliness, this deficiency may be overlooked.

Closely following these two we have Livingston's Globe, a great favorite in the Middle West and the real standby of Southern growers for shipment to Northern markets. Seventy-five per cent of all tomatoes which reach us from Christmas to Easter are Globes grown in the South. This is a very handsome, almost globe-shaped sort of beautiful color and great solidity. It is firmly "fixed" in all its desirable characteristics and matures the bulk of its crop in from 120 to 130 days from date of sowing seeds. Under the individual stake method of cultivation, Globe furnishes surprising quantities of fruit of highest character. It is now grown successfully from Florida to central New York and from Massachusetts to Missouri.

Truckers' Favorite is, perhaps, the best known pink main crop sort, excepting Ponderosa, which takes the prize for producing extra large fruit. But the tendencies of late have been away from the mammoth kinds. It is an established fact that the waste in connection with some of the extra large sorts is enormous. But Ponderosa is, perhaps, in a class of its own for solidity and flavor.

Sparks Earliana, already mentioned as being the favorite in Eastern markets, is the bright red standard for earliness throughout the country. Like its brother, June Pink, among the purple sorts, it has a distinctly laciniated foliage, which gives the sunbeams free access to the fruits. As a result, they ripen while those of later sorts, with heavier foliage, are still small and green.

Bonny Best is one of the newer bright red sorts that have won the approval of growers throughout the country in an incredibly short time. It is within a week of being as early as Sparks Earliana in outdoor trials, and far surpasses that sort in symmetrical shape and smoothness. A large percentage of the fruits show a decided tendency to be round. All are thick through, averaging 2½" x 3" in diameter, and this uniform size is maintained throughout.

Rivaling Bonny Best in beauty, and

(Continued on page 84)

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 10 Niagara, primrose yellow, pencilled carmine.
 10 Glory of Holland, many flowers. Pure white with lavender anthers. All for \$2, delivered. Half collection for \$1.15.

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STANDARD Underground

Garbage Receiver

In Use 12 Years

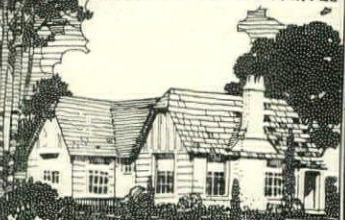
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April, 1916

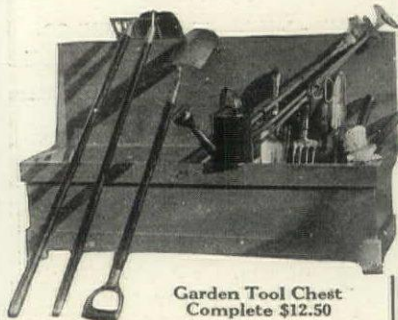
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Sleep that wakes in laughing day,
Health that mocks the doctor's rules,
Knowledge never learned in schools."
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mer? Then turn to the
Summer Camp Section of

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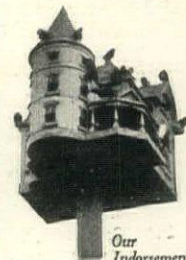
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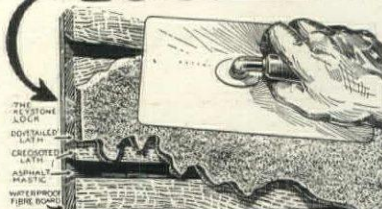
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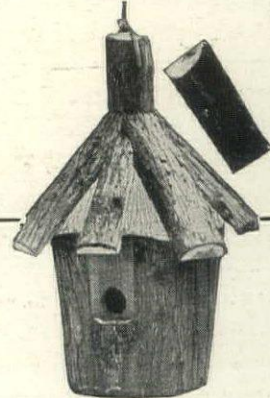


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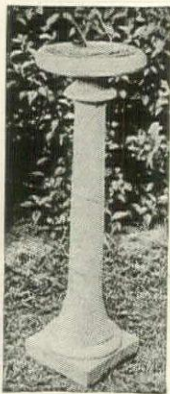


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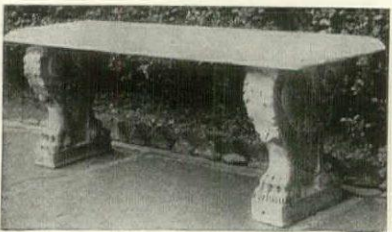
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Efficiency Standards for the Tomato Patch

(Continued from page 82)

even surpassing it in yield per plant, we have Chalks Early Jewel. Of about the same season as Bonny Best, it grows to even larger size and has a longer season of bearing. This causes it to outyield Bonny Best considerably, but its fruits are not as symmetrical, nor does it maintain its larger size as well toward the end of the season.

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Your Woodland Annex

(Continued from page 24)

masses and colonies. Thinning out the trees here and there to let in light enough to encourage the flowers, but not enough to encourage the grass, will usually produce results.

The work of Nature in restoring the wild flowers can be supplemented by sowing broadcast the seeds of desirable species, which can be readily collected in the neighborhood or purchased cheaply from seedsmen. The work should be carefully done, but with avoidance of formality. Here, as with the shrubs and trees, due regard must be had for the soil, light, and moisture requirements of the plants. It will probably be a year or more before much bloom is obtained in this way, for perennials usually do not bloom the first year from seed.

The use of plants rather than seeds has many advantages, though it involves more trouble and expense. Sometimes it is easy to get bulbs and root-stocks of such plants as jack-in-the-pulpit, squirrel corn, Solomon's seal, and bloodroot, for planting with quick results. Where plants are used they should be scattered about in desirable places, where they will eventually develop into colonies.

THE VALUE OF TRANSPLANTING

The use of plants is particularly desirable in the case of shrubs, vines and trees. If there is an inadequate supply on the premises it is usually easy to find other sources in the neighborhood. As a last resort they may be obtained from nurserymen. Early in the spring and late in the fall are the best times for transplanting, though the work can be done successfully during the growing season, if sufficient care is taken in removing a large ball of earth with the roots and trimming back the tops to compensate for root injury.

Transplanting work, at least at first, should be limited to the points of especial interest. These are at vantage points along the roads and trails, or by spring or brook, or about the pool, or to cut off some portion of the view. It should be remembered that it is by crowding in masses that our shrubs of brightest blossom produce the most superb effects of spring. The tendency to plant in stiff and set or too regular masses is to be studiously avoided.

All woodlands of considerable extent have their springs and streams and possibly a pond or a bog. In some places drainage may be desirable to make the woods more healthful and pleasant. In others the natural beauty may be increased by making miniature lakes or cleaning out a slough. A bog garden with pitcher plants, hardy orchids, cranberries, pale laurel, wild rosemary, cassandra,

and with a yielding floor of sphagnum, is one of the most interesting features of the forest. Trees such as tamarack, black spruce and white cedar will grow there too, along with some of the hardwoods.

The margins of ponds can often be improved by breaking up the monotony of the vegetation around them and introducing variety by planting hardy aquatics here and there. If the bottom is not rich enough for water lilies, they can often be started by putting in rich earth at certain points. Besides the pond lilies—white, pink and yellow—there are cattails, arrowhead, iris, marsh marigold and others to occupy their favorite places in the water or along the banks. The brooks and springs, and even the larger streams, offer manifold opportunities for the artist's deft touch with flowers, shrubs, ferns and mossy stones.

A DEFINITE PLAN ESSENTIAL

The work of restoring the beauty of a woodland should proceed according to some general plan. The tract should be gone over carefully many times and the latent possibilities considered. There is need for imagination, for nothing should be done by rote. One of the first things is to provide for protection of the property. Fires are an unnecessary evil, and measures should be taken to prevent their occurrence. Grazing animals should be excluded. If woods pasture is necessary, it is better to fence off a portion for that purpose and preserve the remainder. Fences should be adequate but not conspicuous. The appearance of the woods from the outside should be taken into account, and the view from the house or grounds made as attractive as possible and the entrance to the tract inviting.

The interior of the woods should be made accessible by roads for riding and driving and also hauling. The location of drives should be determined with care, to get the best views the place affords. The line of easiest grade should be followed with few straight lines and no mathematical curves. Groups of fine trees are seen to best advantage when off a little to one side of the drive and without too much young growth and saplings intervening to obscure the view. The nodes or principal turns in the drive should be made particularly attractive by bold groups of hardy plants or by the opening up of vistas or spots of special interest within the woods or to points outside. If a road must pass near unsightly objects, they should be screened by planting. If natural

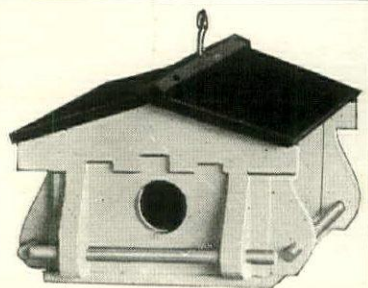
(Continued on page 86)

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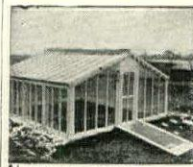
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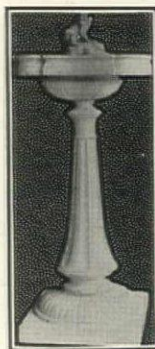
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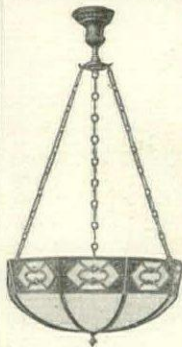
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Your Woodland Annex

(Continued from page 84)

vistas to the outside do not exist, it is often desirable to make them, as an occasional glimpse of some beautiful portion of the outside world is always welcomed. Such vistas should appear as though accidental and not a straight gash cut through the woods. The woods should not be cut up too much with drives. Other parts can be reached by trails or mere paths which require comparatively little work to build.

INTELLIGENT FORESTRY

The average woodland will be in need of some clearing. Such dead timber, dying trees and debris as make the place unsightly or add to the fire hazard should be removed. The leaves, old rotting logs, and smaller litter, should usually remain to add to the richness of the soil and protect the vegetation. If brush is burned in the woods it should be at a time when there is no danger of the fire spreading, for even light surface fires are destructive. If bird-houses are constructed, they should be of a rustic design that will blend into the general scheme without prominence.

Many woodland owners dislike the idea of cutting any of their trees, and yet the skillful use of the axe is often the only way to attain good results. Large spreading old trees may be wholly obscured by a dense growth of young saplings, which must be sacrificed to bring the old tree into

prominence. The forester whose object is utilitarian would cut these spreading "wolf-trees," as he calls them, to give the young growth a chance. Which method is right depends upon the purpose of the owner.

Even in a woodland where beauty is the prime objective, a considerable portion can be managed along scientific forestry lines. Dense young stands need to be thinned at intervals, otherwise the trees will grow tall and spindling and kill one another in their struggle for existence. Thinning them out gradually improves the appearance of the stand and leaves the remaining trees in better condition for growth. In these thinnings the finest specimens are always favored. The stumps should be cut low and the brush removed if it is unsightly or a fire menace. In making a thinning the idea should be to get an equalization of the crown space and not uniform distribution of the trees on the ground.

In all work of this nature it is a good plan to make haste slowly. The sudden opening of the dense woods may result in the death of the trees it was aimed to stimulate. Thinnings should be made gradually to give the trees a chance to become accustomed to the changed conditions. Again, if openings are too large the growth of grass is stimulated, which is inimical to the forest vegetation. Grass should be confined to the meadows and glades.

With Much Taste and Little Money

(Continued from page 21)

lengths that would reach from floor to ceiling, and using it on the walls. The cloth was dipped in water and wrung out by being twisted into a tight rope, in which condition it was allowed to remain for an hour; it was then shaken out, tacked in soft folds along the top of the walls and then drawn taut to the bottom of the baseboard. In the bedrooms the tacks at the top were covered by a 3" frieze of chintz, matching that used on the dressing-tables and beds; those at the bottom were hidden by a strip of quarter-round moulding painted white. In the living-room moulding was used at both top and bottom of the walls and in the dining-room a frieze of blue and white checked chintz matched the trimming on the curtains. By soaking and then twisting the cheesecloth a soft crape-like effect was obtained that was really charming.

The sash curtains were of cross-barred muslin, and for the other curtains and valances, hung on double rods. Chintz was used in some of the rooms, but in the dining-room white Indian Head cotton, trimmed with checked chintz. A golden oak dining-table, too ugly to use and too good to throw away, was painted in dark blue enamel paint with a design of conventionalized flowers in orange and green, and a plate-glass top preserved the decoration and permitted the absence of tablecloths. The chairs were wooden, straight-backed, but good in line; they were bought in an unfinished condition from the manufacturer and painted to match the table, blue, with a little flower decoration across the top, and striped in green. The couch was covered in green denim piped with white and piled with orange and blue cushions, while two blue and white plates and a copper tray on the little shelf completed the decoration and added the

final touch to this charming room.

And what was the cost of these improvements which changed a laborer's cottage into one which has proved perfectly comfortable for a woman of simple tastes? A very small one, compared with the results, because the owner possessed both taste and ingenuity. The cost of the repairs to the foundations, etc., was \$158.16. A bill for \$215.53 covered the lumber and labor necessary for the building of the little addition, and the elementary plumbing used for the little bathroom cost \$18, the tub and washstand having been bought second-hand. Inside the house inexpensive materials were used. The sash-curtains of cross-barred muslin cost about 20 cents a yard and the outer white ones were made of Indian Head cotton at about 18 cents, while the blue and white chintz with which they were trimmed cost 65 cents. The plate glass top to the dining-table, probably the most expensive thing in the cottage, cost \$8.50 and has vindicated its price over and over again by its beauty and usefulness. Paint was used freely both inside and outside the house, the bill for it amounting to \$39.10, but never was money better spent.

The work was done by the village carpenter on the basis of day's labor. By this method the contractor's profits were eliminated and in this case the plan worked well, as the carpenter was glad of the job and did his best to give satisfaction. The owner did not leave everything to him but was often in the village and when there, constantly at the cottage, working herself and overseeing things generally. The results obtained in this little cottage should encourage any woman to feel that a summer home of her own is not beyond the range of possibilities even should her bank account not be plethoric.

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**Magic Lily
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which flowers in 15-18 days from time of planting in our SPECIALLY prepared MOSSFIER.

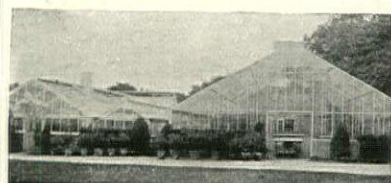
Pure white, deliciously fragrant, the lovely bells ring out a JOYOUS EASTER GREETING to your friends.

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if you have a limited purse it is to hire an organization which avoids extravagance and features economy and speed.

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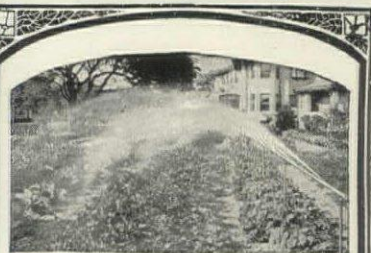
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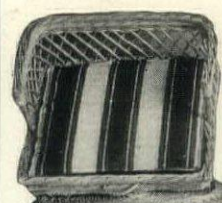
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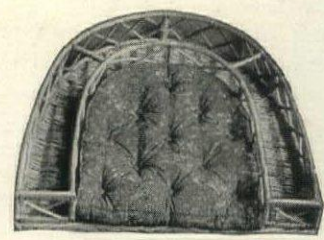
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Kneeling rack with cushion for weeding garden. \$2.75



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Work basket for flower garden, with tools. \$5.60



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Work basket and tools for flower garden. This style is patterned after our English flower basket. \$7.75



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THIS dahlia was used in preference to chrysanthemums or other dahlias for decorations by the Suffragettes at Oyster Bay last fall. The best all-around dahlia in existence; a tried and true novelty and the most attractive garden dahlia ever introduced.

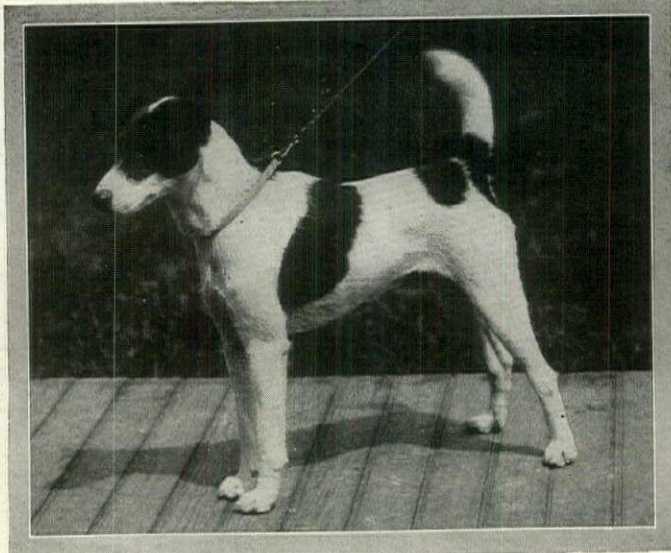
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We grow all of the best of the newer dahlias and are proud to boast that the Golden Gate is still the best garden dahlia. Send in your order at once as we have an enormous sale on this variety and may be sold out later. Send your order now and have Golden Gate blooming in your garden this year. One large field root for 50 cents—postpaid, \$5 per dozen. Our dahlias were given three first prizes at the American Dahlia Show. We carry all the good ones of new and standard sorts, all free bloomers that have made good for florists' use.

We handle all the new standard sorts of Holland Peony Dahlias that are so popular this year. They are free bloomers of large artistic flowers on long stems and are extra good for either cutting or for the garden. Send for prices.

No shy bloomers listed in our 1916 catalog that will be mailed free on application.

LONG ISLAND DAHLIA GARDENS
Hicksville, L. I., N. Y.



Small, compact "cat" feet are among the points to look for

The Gentleman's Terrier

(Continued from page 27)

the best type of thoroughbred.

In America the fox terriers outnumber any other variety. The canine population recorded by the dog license records of the cities show two fox terriers to one dog of any other breed, but most of these so-called fox terriers are of more than doubtful ancestry and very nondescript appearance. Every small dog, mainly white, spotted with markings of black, tan, smutty brindle and what-not, whose tail has been docked, is not a fox terrier. Short, spindly legs; dumpy, shapeless bodies; thick skulls and snappy noses; large pop eyes and great, floppy ears are not the distinguishing physical characteristics of the breed that has been well called "the gentlemen of the terriers." There are thousands of these caricature fox terriers all over America. It is quite bad enough that such unlovely looking dogs should masquerade under the name of a good breed; but it is far worse that their disposition and character—or rather lack of character—should be charged up against their thoroughbred namesakes. These counterfeits, to give them their due, are usually bright, but they are also usually yappy, snappish little dogs, lacking in courage and without any real personality. The thoroughbred, on the other hand, fairly teems with terrier character. He shows his breeding, too, in every curve of his outline, in every movement of his lithe muscles.

ROUGH COATS AND SMOOTH

In either wire or smooth jacket the fox terrier is a gentleman's dog, but it is remarkable what a difference the two coats make in his appearance. The smooth fox terrier is a little patrician, a clean-cut young gentleman of the *beau monde*; his rough-coated brother is the young sportsman of the family, no less gently born, but fonder of the hunting field than of the drawing-room. The smooth dog has a neat, trim, just-out-of-the-bandbox appearance. The wire seems preeminently rough and ready. Their expressions, too, are different. The former has a bright, keen, varminty look, while the whiskers and rough eyebrows of the latter give him a fascinating, quizzically alert expression.

Though the friends of the two varieties find in each their favorite characteristics which they cannot discover in his brother, there is really little or no difference in their dispo-

sitions. The smooth's supporters are pleased to consider their dog something more of a gentleman than the wire, in whom they seem to notice a certain unseemly boisterousness. On the other hand the wire dog's adherents find him more gritty, less given to barking, and not such a tramp as the smooth. These fancies are the offspring of imagination and prejudice. The dogs that are so very different may be full brothers, for breeders not infrequently mate the two varieties. If you like a smooth coat best, the smooth fox terrier is certainly more desirable and attractive; but if you prefer a rough jacket, the wire is obviously the better dog. There is simply no comparison between the two. The smooth coat, it is worth while to remember, is trim, neat, attractive with almost no care, but it sheds badly in spring and fall, while the wire jacket, being a better protection against wet and cold, makes a hardier dog, which, although it does not shed, requires much combing and trimming.

POINTS TO LOOK FOR

The points of the two varieties are identical. Both dogs to be typical must have long, lean heads. To avoid any suggestion of a "foxy look," the skull must be narrow, the cheeks clean, and the foreface must be well filled in. This gives the much desired "long, punishing jaw." The ears must be small, V-shaped and placed quite high on the corners of the skull, for nothing spoils the keen terrier expression more than low, heavy ears. For the same reason large, yellow eyes are barred. The neck should be quite long, rising gracefully from the lines of back and chest, adding much to the dog's aristocratic carriage. The "front" is an important item in fox terrier perfection. It consists of smooth, sloping shoulders, like those of a thoroughbred race horse; a pair of front legs as straight and even as a couple of pocket rulers, ending in small, compact "cat" feet. The back should be short and level, the chest and brisket deep, and the loin cut up, though an exaggerated "wasp waist" is a fault showing weakness. Strong hind legs, with straight, well let down hocks, giving him two powerful springs to drive him forward at a racing gallop, are demanded by the critical judge. The dog is topped off, as it were, with a gaily carried tail.

(Continued on page 90)



Planet Jr Seeder and Wheel Hoe at work in a suburban garden.

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Planet Jr Garden Tools

No. 4 Planet Jr Combined Hill and Drill Seeder Wheel Hoe, Cultivator and Plow includes practically every tool needed to plant and cultivate large or small garden and plow up scratching yards. Can be used by man, woman, or boy. Costs little and lasts a lifetime. Fully guaranteed. 30 other styles of seeders and wheel hoes—various prices.

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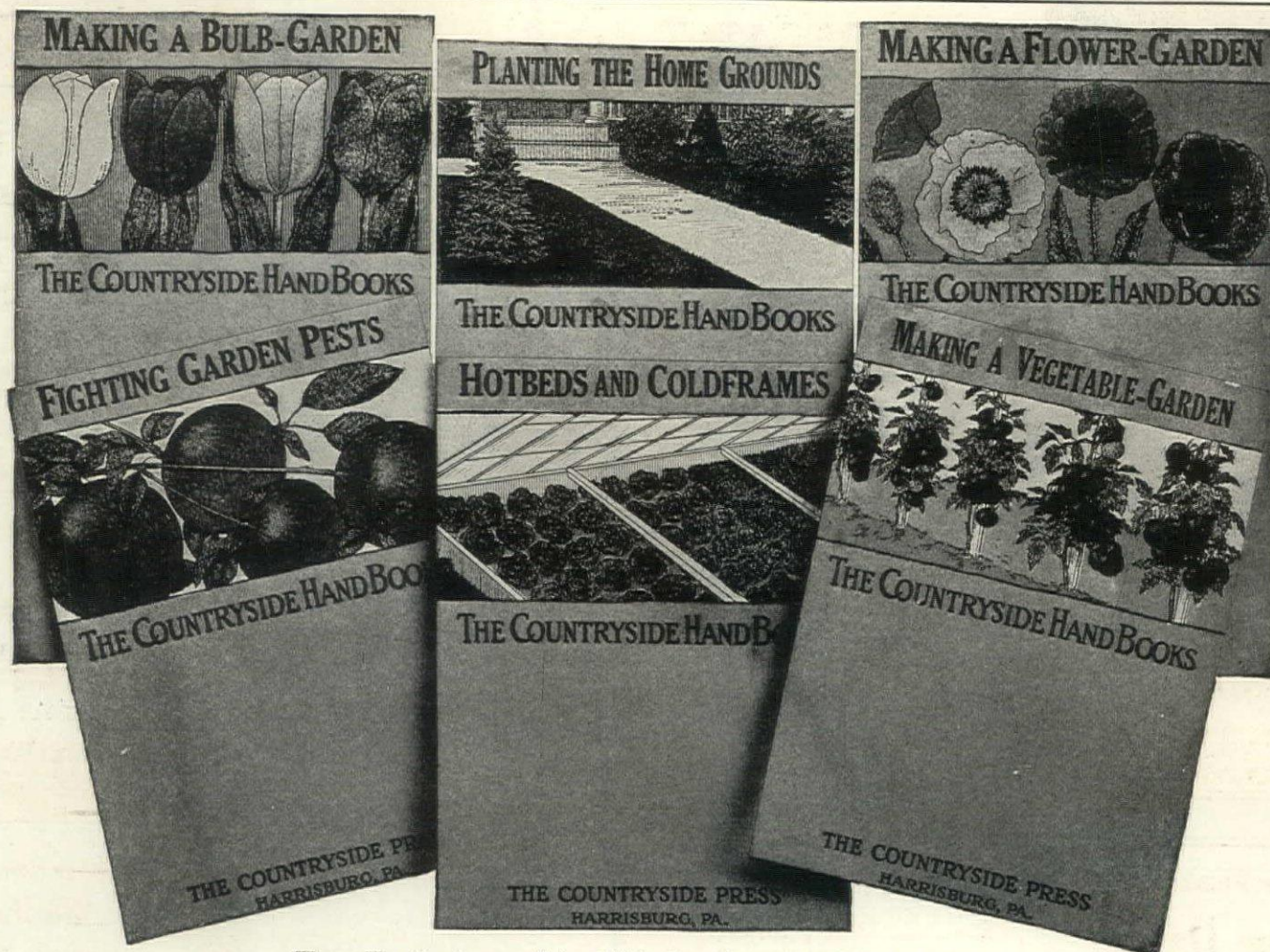
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PLANTING THE HOME GROUNDS

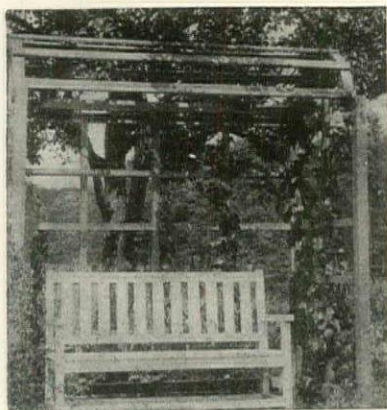
One of the most complete treatises on the subject, contained in a small compass, ever written. Nothing like it has ever been published. As a guide for planting the home grounds, it is alone worth the price of the whole set. This handbook is uniform with the others, is fully illustrated, and covers the subject completely.

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Garden comfort

Your garden this summer will be the most inviting spot in the world if you make it a "Comfort Garden." Place a curved bench in one corner, an arbor seat in another and perhaps a tea table and chairs within its shelter—and you will have an outdoor living-room of comfort and charm. Our Old English garden furniture graces the finest estates in America. Send for our Portfolio Catalog, which will help you to make the most of your garden and lawn.

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C. M. Hart, Architect,
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are warmer in winter and cooler in summer than tiled, slated, clapboarded, or gummed-paper houses. They cover the surface with three insulating layers and non-conducting air-spaces, and no other finish does this. They are also much more picturesque and attractive, and they admit of far more varied and beautiful coloring than any other finish.

Cabot's Creosote Stains

color them in beautiful tones of moss-green, bark-brown, silver gray, etc., and the creosote thoroughly preserves the wood and makes it less inflammable.

You can get Cabot's Stains all over the country. Send for stained wood samples and name of nearest agent.

SAMUEL CABOT, Inc., Manf. Chemists
131 Milk Street Boston, Mass.

The Gentleman's Terrier

(Continued from page 88)

Color and markings, contrary to popular opinion, count for almost nothing in judging a fox terrier. An attractively marked dog in a show ring will arrest a judge's attention favorably, and a narrow white blaze up the face will give the impression of greater length of head; but if the dog is predominately white, with either black, black and tan, or tan markings, he is correct. Brindle and liver markings, in the old days a sign of unorthodox breeding, are disqualified by the standard. They seldom appear in any thoroughbred family.



In connection with Mr. Haynes' article on the "gentleman's terrier," it is interesting to note that at the recent Westminster Kennel Club show in New York the prize for the best dog of any breed exhibited was awarded to the wire-haired fox terrier Matford Vic, whose photograph is here repro-

duced. This splendid little dog won the same honor at the 1915 show, which makes her the second contestant that has ever received the premier prize for two consecutive years. The first case, by the way, was that of another wire dog of the same breed, Warren Remedy. Photograph by Tauskey

Houses with Their Backs to the Street

(Continued from page 17)

a place to entertain in, and what a refuge when she is determined not to entertain! Mrs. Jones, who used to run across the lawn whenever Mrs. Smith appeared on the side piazza, has ceased her impromptu visitations. If Mrs. Smith has a headache, or is deep in a detective story, or wants to write an urgent letter, she can take to the open air without instantly attracting Mrs. Jones. That estimable lady still calls, but at more seasonable hours.

Then, too, the Smiths have gained a recessed porch, habitable despite showers, and an adornment to their "garden front." What was Bridget's domain once is now theirs. And if the ash cans, clothes line and that sort of thing involves rather a problem, it is solved by a screen of hedge or vined lattice. Even the tradesmen's incursions are provided for. Instead of visiting the back door, as formerly, the tradesmen apply at a service entrance fronting the street.

Indoors, everything is gained, nothing lost. The servants have the street to look out upon and enjoy it. The Smiths have the garden to look out upon and enjoy that. Drawing room, living room, library and their chambers above face the private park at the rear. Meanwhile Smith's architect chuckles. He had had the lark of a lifetime designing that house—two fronts instead of one, twice the opportunity for æsthetic effect, and three or four times the usual test of ingenuity all around.

Longer than most houses, as it fills the entire width of the lot, Smith's is proportionately shallower, so that the arrangement of rooms calls for niceties less imperative elsewhere, and besides there is Smith's automobile to consider. A garage at the rear would encroach on the garden,

while requiring a roadway under the house. So be it. The roadway becomes the garage.

AMBIGUOUS ENTRANCES

Moreover, there is the question of those two front entrances. Suppose tradesmen should present themselves at the guest entrance, guests at the service entrance? Mrs. Ole Bull's house in Cambridge, one of the earliest American experiments in the reversed style of building, was simply an ordinary mansion turned right-about-face. When you received your first invitation to a conference on comparative religions there, and hastened to attend, you raged about in a fever of maddened perplexity for a bad five minutes, and then taking the bit in your teeth, rushed in. Ten to one you found yourself not among Swamis and Theosophists, but among pots and pans. Even French houses with their backs to the street sometimes afford ambiguities, and even after the visitor has passed through the guest entrance. Mr. Stoddard Dewey, the accomplished Paris correspondent, tells me that he has never yet paid a call at 21 Rue Vallette without blundering into the coal-hole. To prevent such disasters, the guest entrance must be made both showy, to a degree, and pronouncedly conspicuous, while the broad hall it opens into must head unequivocally to a reception room. It is one thing to be retiring and pleasantly aloof from untoward bustle, but quite another to shut oneself off so completely that one's friends lose their way 'twixt street and salon.

What does all this prove? That every house should turn its back to the street? No such thing. It proves only that when conditions make the plan attractive, it is entirely feasible.



ROBIN REDBREAST

Has he a

HOME IN YOUR YARD?

Here is a jolly little red cedar home for Robin. Hang it on your porch or in a tree. He will sing you awake these spring mornings. House, No. 4, \$1.00.



Other houses especially designed for Bluebirds, Chick-a-dees, Wrens, Martins, Nuthatches, Swallows, Flickers and Titmice. All made of sound Red Cedar, weather and insect proof. Prices, \$1.00 up.

THIS RED CEDAR CHAIR \$4.00



Built for utility and comfort; rain and borers will not injure it; solid as a rock, yet handsome and decorative. 40 inches high, with bark still on wood. Chair No. 124, \$4.00.

Please order these articles by number and enclose check, money-order or bills. Birdhouse or chair sent freight collect, unless otherwise ordered.

We ship direct to you—Only one profit!

By all means, send for our beautiful illustrated catalogue of rustic furniture. Our line is absolutely complete.

Jersey Keystone Wood Co.
Trenton, New Jersey



Bird Houses at Mr. Stanton's Home, St. Joe, Mich. On left, a "home-made" Martin house, which stood three years without attracting birds. On right, a Dodson Martin House which brought the Martins first week it was up. Bluebird House in center. When you put up Dodson Houses you get song birds to live with you.

If You Want Birds Put Up Dodson Bird Houses

Any Jack-Carpenter can make a box and call it a bird house. But he can't win birds with it. For nearly 20 years I have worked for American song birds. I studied and worked for several years to get my first two bird houses just right. There are thousands of genuine Dodson Bird Houses up and occupied in America today.

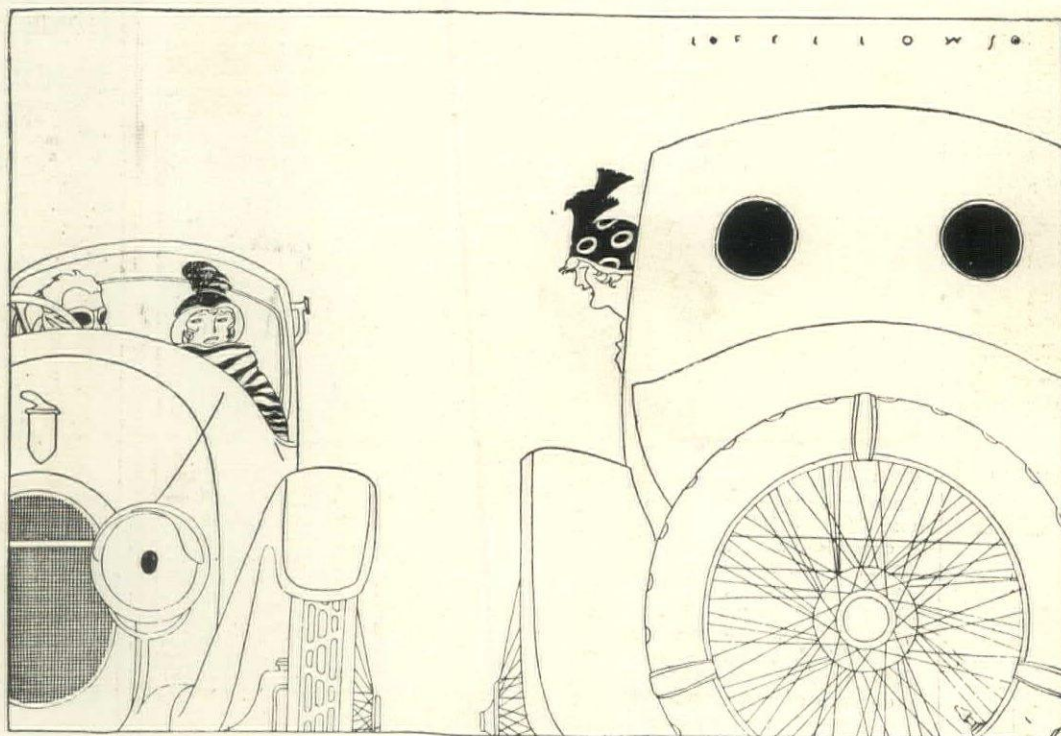
It is not just a house you want; it is song birds. Get Dodson Houses. Send for the free book which tells how to win birds. This book illustrates the 20 styles of Dodson Bird Houses, Shelters, etc., and tells how to win and care for Wrens, Bluebirds, Martins, Flickers, Chickadees, etc.

Dodson Sparrow Trap catching thousands all over U. S. No other trap like this. Double funnel and automatic drop combined. Price, \$6.

Nature Neighbors is the best set of books about birds ever published. Free folder and picture of birds in natural colors.

JOSEPH H. DODSON
731 Harrison Ave., Kankakee, Ill.

Mr. Dodson is a Director of the Illinois Audubon Society, the American Audubon Association, Life Member of the Missouri and Michigan Audubon Societies, a Member of the National Audubon Society, the Massachusetts Audubon Society, the American Bird Banding Association, and the American Ornithologists' Union.



Coming and Going

four hundred motor worries can attack four hundred motorists in a day's trip.

Out of the host of letters from the readers of Leslie's Motor Department who take their auto troubles to Harold W. Slauson, Mechanical Engineer, four hundred that touch on things that could happen to anybody "coming and going" have been bound together with their answers in a booklet for your convenience.

This little collection of average motor worries and the way to settle them may be of more use to you than you think. It is yours for the asking. As we have only a limited number of the books we must be sure that you are a motorist so please indicate the name of your car on the coupon.

Leslie's
Illustrated Weekly Newspaper

225 Fifth Avenue New York

H-G
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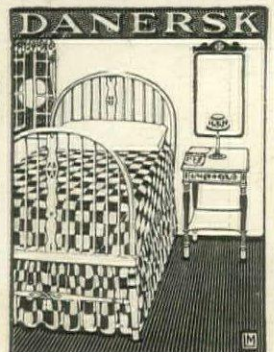
Harold
W. Slauson, M.E.
Leslie's Motor Department
225 Fifth Ave., New York

Please send me "Motorist's
Questions" booklet. I drive
(own) a.....car

Name

Address

DANERSK



EXQUISITE REPRODUCTIONS
of Old English Furniture
**DANERSK DECORATIVE
FURNITURE**

Write for booklet "A"
ERSKINE-DANFORTH CORPORATION
2 West 47th Street New York



The MONROE
*A Refrigerator of
Superior Quality*

THE ideal of refrigeration requires 100% perfection in these four points.

- (1) Cleanliness.
- (2) A strong and positive circulation of cold, dry air.
- (3) Coldness—or low temperature.
- (4) Ice conservation.

Some refrigerators have a high percentage in one of these features, some in another—some in two or three. But the high average in all four points goes to the

"MONROE"
Refrigerator

Cleanliness is assured by its food compartments of solid porcelain ware—over an inch thick—with all corners rounded. No metal to corrode—no enamel to chip—not a single crack, crevice or corner to harbor dirt or germs. As easy to clean and keep clean as a china dish.

Special construction features based on scientific principles provide for a strong and free circulation of cold, dry air.

Low temperature is assured by heavy and efficient insulation and "cold-tight" construction throughout, also by tight-fitting doors that lock automatically when shut. No leakage of cold air here to offset other economical features. This all contributes to minimum ice consumption, which means small ice cost.

The "MONROE" is built like fine furniture. The price is not the lowest. But the low ice consumption and lifetime service it gives make it by far the most economical.

The "MONROE" is not sold in stores, but shipped direct from our factory—freight prepaid—on 30 days' approval with a guaranty of full satisfaction or money refunded.

Write for Our Complimentary Book

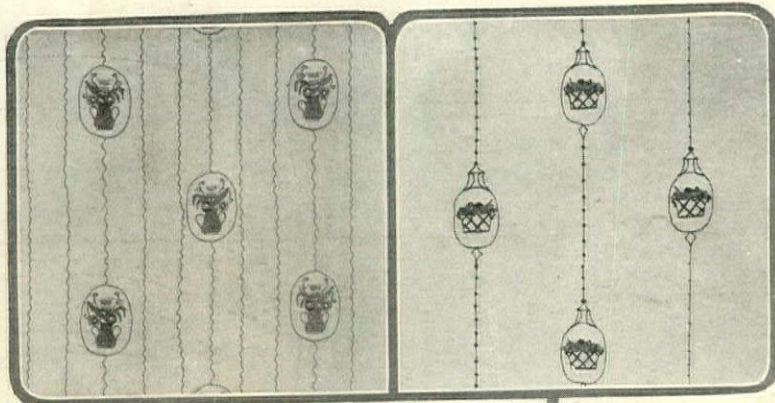
on refrigeration. It tells many important "hot weather" food facts and how you can have a "MONROE" in your home on approval for 30 days where you can judge for yourself if it is not the only refrigerator that will fully measure up to your requirements. There is no obligation. Your name and address will bring the Book promptly.

MONROE REFRIGERATOR CO.

44 Benson Street Lockland, Ohio

Fabrics as Fresh as Spring Itself

(Continued from page 53)



Embroidered by hand and machine on 36" ecru linen are little green flower vases within yellow ovals, the flowers being yellow, blue, violet and red. \$3.40. Also made with ovals in violet

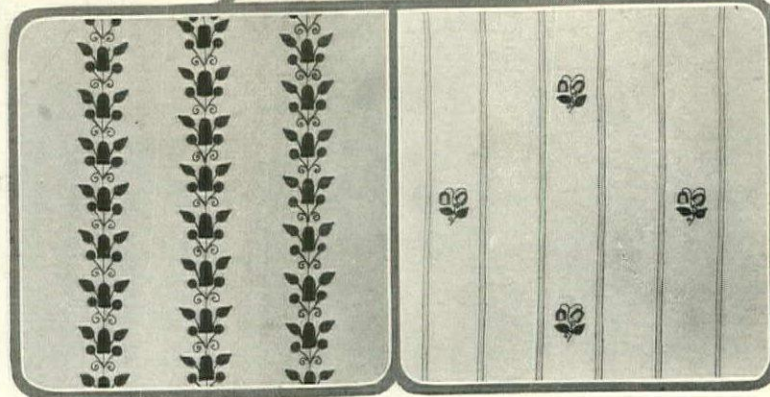


"Ladybells" with exceptional decorative quality for upholstering or hangings; an all black embroidery on a 36" linen of ecru. \$2.65

Another embroidered 36" linen with varicolored leaves, flowers and birds. \$4.50

Excellent for a breakfast room or porch is an ecru linen, 36" wide, embroidered with black lines and baskets of fruit in worsted in soft shades of brown, green, orange and violet. \$3.65

Black and blue bell flowers with black and blue stripes on a 36" ecru linen give this fabric an unusual note of distinction. \$2.65



porch fabrics are as inexpensive as they are effective.

HAND-STENCILED SUNFASTS

In addition to these regular commercial linens and cretonnes are some splendid hand-stenciled sunfast fabrics. The background is of rather coarse-grained natural colored linen of splendid wearing quality, and the designs are direct, vigorous and of good symmetry. They have a decorative quality distinctly Viennese in character. These fabrics are new and have the interest that all handwork possesses. Set bouquets of clear-colored flowers, stiff black flowers with a lined background, impossible blossoms never seen on land or sea, these are the designs. And they are particularly adapted for summer porch use, as the colors are fadeless, and in summer, we can stand good strong colors.

EMBROIDERED FABRICS

Peasant work has its especial appeal, and the ideas are being carried out in a new industry with promising success. A linen cloth of homespun texture has color patterns worked out partly by hand, partly by machine. This combination lessens the cost of

production and the hand and machine work are so cleverly combined that it all looks like handwork. The designs are splendidly chosen, one "mille-fleur" with its varied odd flowers scattered here and there has tremendous decorative possibilities. For bedspreads nothing could be better. There are fruit baskets and garlands of flowers suitable for window hangings, chair coverings and pillows. It is interesting to note that this work is done by peasant women in a little town near New York under the direction of a woman who has studied peasant work abroad.

KNOTTED AND DYED FABRICS

Another new fabric of decorative possibilities is knotted, dyed and batik work. With this, too, is combined stenciling. Costumes have been made by this process for some time, but it has only lately been brought within the reach and to the notice of house furnishers. The material, cotton or silk, is tied in knots and dyed, the knotted part remaining uncolored. With the changing of the tightness and position of the knots the effect of the color is varied.

(Continued on page 94)

ATTRACT THE BIRDS

THIS beautiful garden piece as well as hundreds of other exquisite Italian OLD IVORY TINTED POTTERY



"Bird Bath" No. 319A 33 in. high Bowl 22 in. wide Price \$13.00

pieces as shown in our new Garden Pottery Catalog. Shapely vases and pots, graceful sundials and benches and many other things are included for indoor or outdoor use.

Wheatley Pottery is weatherproof, tough, hard—and very inexpensive. Send for Catalog. Order direct from the Pottery. We pay freight on purchases amounting to \$5.00 or over East of Denver.

WHEATLEY POTTERY, 2427 Reading Road, Cincinnati
Established 1879

Interest Your Children in a Garden

When the lure of spring is in the air, and there is pure joy in simply being out of doors, every childish heart has a wish to "make a garden." For the boy or girl who has this desire there is nothing more appropriate or useful than

The Mary Frances Garden Book

By JANE EAYRE FRYER

Author of "The Mary Frances Cook Book," "The Mary Frances Sewing Book," and the "Mary Frances Housekeeper."

In the simplest possible words and style, and in the most fascinating kind of story, the Mary Frances Garden Book actually teaches children how to grow all their favorite flowers and vegetables—how to prepare the soil, how to plant the seeds, how to plant bulbs, the name of parts of flowers, how plants grow by fertilization and reproduction, how to guard against insect enemies, how to care for growing plants, how to make a hotbed, what flowers and vegetables are best for children's gardens, etc., etc., and gives an outline of each month's work for a year. It gives the little reader a more intelligent knowledge of the processes of Nature, and of how to direct them in gardening, than the majority of grown people possess. It also instills a love and appreciation of plant and animal life, and of all Nature.

Colored Illustrations on Every Page

SENT All Charges FREE Prepaid for Examination

Because we cannot adequately describe the charm and value of this unique book we will gladly send it anywhere on approval, all charges prepaid. If it does not exceed your expectations, send it back at our expense. If you want it, simply remit the price, \$1.50, and 20 cents postage.

The John C. Winston Co.
Publishers
Philadelphia Pa.

SEND NO MONEY—Cut out Coupon and mail to THE JOHN C. WINSTON CO., 1006 Arch St., Philadelphia, Pa. Please send without charge. I will remit the price of the book at your expense in full.

Name _____ Address _____

ROOSEVELT *in the* Metropolitan

March 15 Cents



A letter from Hartford Shock Absorber to Metropolitan

"You have asked me why the Metropolitan was selected as an advertising medium for Hartford Shock Absorbers.

"A frank question merits a frank answer.

"We selected the Metropolitan because it is so interesting, 'snappy,' and up to date, that we found ourselves looking forward to receiving the next issue of the Metropolitan, and we felt that it was reasonable to suspect that possible, prospective purchasers of our products were doing the same thing.

"Hartford Suspension Company,
"A Waterman,
General Manager."

The following automobile and accessory advertisers used 3633 lines of space in the March issue of the Metropolitan:

Thomas B. Jeffery Company
Electric Storage Battery Company
Timken Company
The White Company
American Chain Company, Inc.
The Dayton Engineering Laboratories Co.
Paige-Detroit Motor Car Company
Lee Tire & Rubber Company
Hartford Suspension Company
Klaxon Horn (Lovell-McConnell Mfg. Co.)
DuPont Fabrikoid Company

Daniels - By Henry Reuterdaahl

This is the March cover of the magazine that carries nearly four times as much automobile advertising as any other general monthly magazine

FOR DUST PREVENTION

SOLVAY
GRANULATED CALCIUM CHLORIDE

Clean—Odorless—Efficient

Shipped direct to your station in
air-tight packages ready to apply

SOLVAY

Stock carried at many points
Write for illustrated Road Book

SEMET-SOLVAY CO.
406 Milton Ave., Solvay, N. Y.

"Standard" PLUMBING FIXTURES

You who build or remodel this year will want "Standard" equipment for bathroom, kitchen and laundry. You will want a "Standard" Built-in Bath—with its graceful lines, its solidity, its whiteness.



Ask your architect or plumber about "Standard" Plumbing Fixtures, or see them at any "Standard" showroom. Identify them by the "Standard" green and gold guarantee label. Write today for copy of "Modern Bathrooms."

Standard Sanitary Mfg. Co.
DEPT. 40, PITTSBURGH

You will be welcome at any of these "Standard" Showrooms

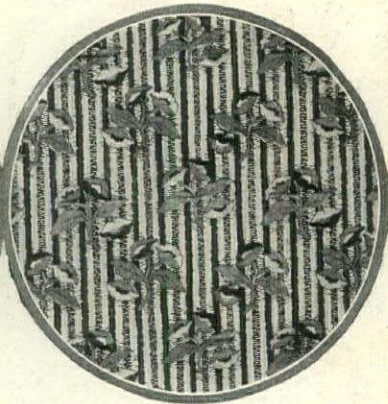
NEW YORK.....35 W. 31ST
BOSTON.....188 DEVONSHIRE
PHILADELPHIA.....1215 WALNUT
WASHINGTON.....SOUTHERN BLDG.
PITTSBURGH.....108 SIXTH
CHICAGO.....900 S. MICHIGAN
ST. LOUIS.....100 N. FOURTH
CLEVELAND.....4409 EUCLID
CINCINNATI.....833 WALNUT
TOLEDO.....311-321 ERIE
YOUNGSTOWN.....N. CHAMPION
COLUMBUS.....243-255 S. THIRD
ERIE.....128 W. TWELFTH
LOS ANGELES.....MESQUIT AT SEVENTH
LOUISVILLE.....319 W. MAIN
NASHVILLE.....315 S. TENTH
NEW ORLEANS.....846 BARONNE
HOUSTON.....PRESTON & SMITH
DALLAS.....1200 JACKSON
SAN ANTONIO.....212 LOSOYA
FORT WORTH.....FRONT & JONES
TORONTO, CAN.....59 E. RICHMOND
HAMILTON, CAN.....20 W. JACKSON

Fabrics as Fresh as Spring Itself

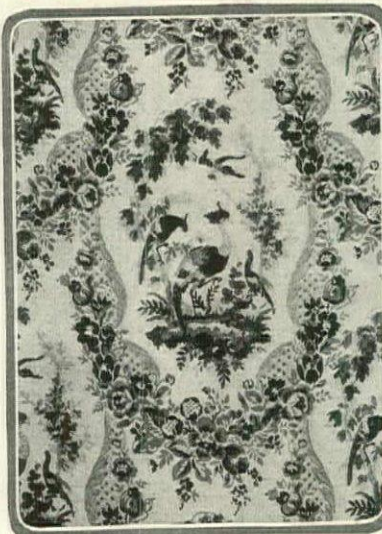
(Continued from page 92)



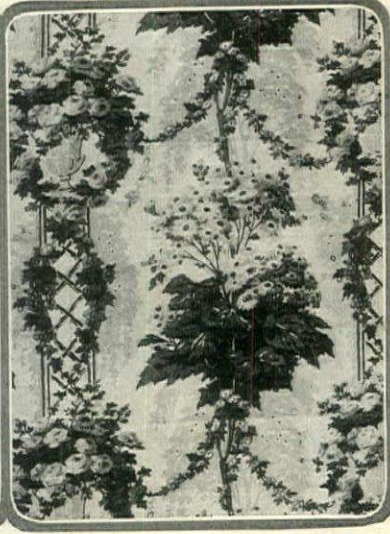
An excellent cretonne for the dining-room, old rose, lavender and blue on cream; 31" wide, 75 cents



A striking porch cretonne with quasi-Poiret flowers in green, yellow and orange; 31" wide, 60 cents



Exquisite in design and coloring—a linen with orange cockatoos and green and blue foliage; 50" wide, \$4.15



A splendid dining-room linen with green, yellow, mulberry and blue in foliage; 50" wide, \$3 a yard



Bright bouquets of brilliant flowers printed on heavy linen, an excellent dining-room fabric; 36", \$2.25



Suitable for the country house comes a cretonne, 31" wide, of black birds with stripes of blue and rose in the background; 60 cents



Fresh and crisp, this cretonne of black birds on a white background with foliage in rose, yellow and blue; 31" wide, 45 cents

Mathews Garden Craft



Garden Comfort—Garden Beauty

Get solid comfort in your garden this summer. Spend all your spare time in the fresh air. Have an outdoor living room. Do it with Mathews Garden Craft Products.

Our free portfolio tells how. It contains many beautiful suggestions for Summerhouses, Pergolas, Lattices, Trellises, Furniture and all other garden decoration.

The Mathews Manufacturing Co.
942 Williamson Bldg., Cleveland, Ohio
Pasadena, Cal. Branch, Colorado & Los Robles Sta.



Far more attractive—weather proof—worth more

—through the transforming power of "High Standard" Paint

"High Standard" Paint will make the same improvement in the appearance of your home—give you renewed pride in its ownership—win the greater respect of your neighbors—increase the value of your property many dollars—

And, in addition, every gallon of the paint will pay for itself in protection and saving of repairs.

Lowe Brothers HIGH STANDARD LIQUID PAINT

is scientifically made from quality-proved materials, which the test of service has demonstrated best. Experience shows it withstands sun, wind and wet for years—keeps its color—wears away gradually and evenly—and leaves a good surface for repainting.

FREE Booklet and Color Plates of Attractive Homes

Write for "The House Outside and Inside," with 18 color plates illustrating different uses of Lowe Brothers paints, varnishes, stains and enamels in the actual colors, with description of rugs, carpets, furniture, etc. An accompanying booklet gives valuable and interesting information about paint and painting.

In writing, ask for the dealer's name, if you don't know him

The Lowe Brothers Company

464 E. Third St., Dayton, Ohio

Boston New York Jersey City
Chicago Kansas City Minneapolis

Lowe Brothers, Ltd., Toronto, Can.



THE MODERN ACT OF INTERIOR DECORATION



Year Home and its Decoration

ARTS AND DECORATION



ALFRED NOYES ON AMERICAN ART

Each issue contains many full page illustrations of successful exteriors and interiors.

Every phase of interior decoration is discussed in complete articles during the year.

The carefully selected reproductions on the cover of Arts & Decoration are always worthy of the subject with which it deals.

You may secure suggestions and advice from this department which will save you many times the cost of a year's subscription.

Topics of contemporary interest in American Art are discussed in complete articles.

DISTINCTIVE HOMES

are not necessarily the most expensive. To create them, thought, individuality and, most of all, suggestions are needed.

Those who wish distinctive homes should make a study of home decoration both here and abroad.

Arts & Decoration is a new kind of a maga-

zine. It is edited for those who appreciate beautiful surroundings, and is the only one which adequately deals with all possibilities of decorative art.

Besides dealing with the various aspects of decorative art, Arts & Decoration gives full reviews of all subjects of interest to American Art Lovers. The New York *Evening Post* recently said, "Arts & Decoration is one of the few magazines devoted to art that really is alive. It discusses freshly and frankly ideas of contemporary interest."

For those who are interested in making art a natural and essential part of American life, Arts & Decoration is absolutely necessary.

Besides containing one or more articles on a distinctive home, having some unique decorative feature, each number contains numerous profusely illustrated articles on antiques, collecting and various phases of art which are of essential interest to all lovers of the beautiful.

Arts & Decoration

A MAGAZINE FOR THE COLLECTOR AND CONNOISSEUR

ARTS & DECORATION, H. & G. M.
434 Lafayette St., N. Y. City

Please enter my name for a 6 months' subscription for which I enclose \$1.00.

Name

Address

The reproductions which are printed on heavy paper and the full colorplates of famous paintings are worthy of framing and alone make the magazine worthy of a place on your library table.

Special offer to readers of HOUSE & GARDEN. We will enter your name for a six months' trial subscription, the regular price of which is \$1.50, if you will send us one dollar now. Send your order today to insure its prompt attention. **25c a copy, \$3.00 a year.**

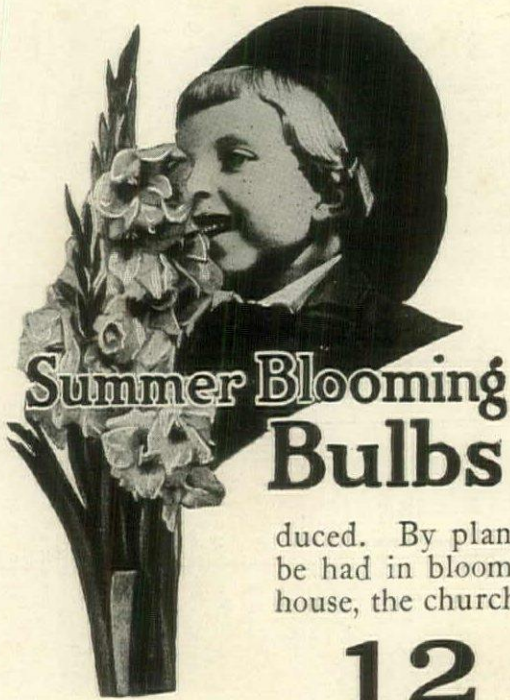


Complete reviews of all the important "one-man" and larger exhibitions are included in this department.



The advertising pages are a veritable catalogue of objects with which to furnish and beautify the home.

War Prices for Gladioli



IN THE whole range of summer blooming bulbs there is nothing so desirable or useful as Gladioli, and nothing so easy to grow.

Failure is practically impossible. Last spring, owing to the war in Europe, we bought Gladioli in Holland at very low prices, and offered them to our customers at the lowest prices ever made in this country. Our sales were enormous. We received as high as 700 orders a day, and our customers were delighted with the bulbs and the flowers. This season there are not nearly so many Gladiolus bulbs in Holland, owing to reduced planting, but, by making early and large reservations, we are enabled to repeat our **War Prices** of last year notwithstanding prices have sharply advanced since we made our contracts. The bulbs are strictly first-class, and we ask you to compare the prices with those of any reliable dealer.

For Cut Flowers

For summer cut-flowers there is nothing so desirable or useful or so easily produced. By planting every ten days from early spring until July 1, the Gladiolus may be had in bloom from the last of June until frost. The flowers are splendid for the house, the church or the hospital.

12 Popular Gladioli

America. Conceded to be one of the finest varieties for cutting or bedding ever sent out; color a beautiful soft flesh-pink, orchid-like in its coloring and texture; growth and habit perfect. 25 cts. per doz., \$1.40 per 100; second size, \$1 per 100.

Augusta. A lovely and most useful variety; pure white, with blue anthers; early. 30 cts. per doz., \$1.75 per 100.

Baron Hulot. Rich, royal violet-blue. This, when cut, in combination with one of the yellow varieties, is truly exquisite. 35 cts. per doz., \$1.75 per 100.

Brenchleyensis. The best and most effective vermilion-scarlet for massing. 30 cts. per doz., \$1.75 per 100.

Faust. Dark velvety red; immense flower; splendid. 35 cts. per doz., \$2.50 per 100.

Halley. Lovely, delicate flesh-color, with a creamy yellow blotch on the lower petals; flowers measure 6 inches across. 30 cts. per doz., \$1.75 per 100.

Hollandia (Miss Roosevelt; Mikado). Rosy yellow; a distinct and beautiful sort. 35 cts. per doz., \$2.00 per 100.

Mrs. Francis King. A striking shade of light scarlet or flame-color; one of the most effective for bedding or cutting. 35 cts. per doz., \$1.75 per 100.

Princeps. Immense, wide-open, amaryllis-like flowers of rich, dazzling scarlet, marked with white on lower portion, which seems to intensify the brilliancy of the scarlet. 35 cts. per doz., \$2.50 per 100.

Pink Beauty. Brilliant dark pink, with distinct dark red blotch. The earliest flowering Gladiolus. 30 cts. per doz., \$1.75 per 100.

Niagara. A charming American variety, with all the good qualities of America, but of a delicate cream-yellow, lightly marked and splashed with rosy carmine in the throat; very large, open flowers on tall, straight spikes; beautiful as a cut-flower. 10 cts. each, \$1 per doz., \$7 per 100.

Panama. An American introduction of sterling merit; is a favorite wherever high-grade varieties are grown. It is similar to and has all the good qualities of America, but in color is a rich rose-pink. Unquestionably one of the finest. 12 cts. each, \$1 per doz., \$7 per 100.

COLLECTIONS OF NAME GLADIOLI

1 each of the above choice varieties, 12 in all.....	\$0 50
3 each of the above choice varieties, 36 in all.....	1 35
6 each of the above choice varieties, 72 in all.....	2 50
12 each of the above choice varieties, 144 in all.....	4 50

GLADIOLI IN CHOICEST MIXTURES

	100	1,000
Mixed Gladioli. Good quality; all colors.....	\$1 25	\$11 50
Red and Scarlet Gladioli. Splendid for massing in shrubberies and borders.....	2 00	

We have the largest, finest and most comprehensive stock of Hardy Plants in America, including three hundred varieties of the choicest Peonies, and also the largest collection of Japanese Iris in the world, and an unsurpassed collection of named Phloxes. Our illustrated catalogue, describing these and hundreds of other Hardy Plants, Trees, Rhododendrons, Azaleas and Shrubs will be sent on request.

SEEDS We have a limited quantity of specially selected, pedigreed seeds, representing choice varieties of everything grown in Mr. Elliott's private garden, that this year, for the first time, are offered for sale, and at no advance in prices. These are highest grade seeds produced. Write for list and prices of flower and vegetable seeds at once.

XXX MIXTURE

This is a specially fine mixture, made up of over 100 fine named varieties, and includes also a good percentage of Childsii Hybrids. Just the stock for those who want only the very best that can possibly be had. We have sold hundreds of thousands of this mixture at \$3 per 100. We have now improved the quality and reduced the price one-third. 35 cts. per doz., \$2 per 100.

The prices for Gladioli do not include transportation from Pittsburgh. If wanted by parcel post, postage must be paid by purchaser. Six bulbs supplied at dozen: 50 at 100 rate. All prices made subject to stock being unsold when ordered. Order quickly to avoid disappointment.

ELLIOTT NURSERY COMPANY, 319 Fourth Ave., Pittsburgh, Pa.

The
WORLD'S BEST DAHLIAS
New Creations and Old Friends



Minnie Burple

PEACOCK DAHLIA FARMS

*Farms Williamstown Junction
New Jersey*

*Post Office
Berlin, New Jersey*

You want the best! Write to-day for above catalogue devoting six pages to complete cultural directions and accurately describing 631 of the *World's Best Dahlias* selected from the more than 2000 varieties we grew last year.

Our Dahlias are a revelation to those unacquainted. They are different.

PEACOCK DAHLIA FARMS. LARGEST IN THE WORLD. BERLIN, NEW JERSEY.

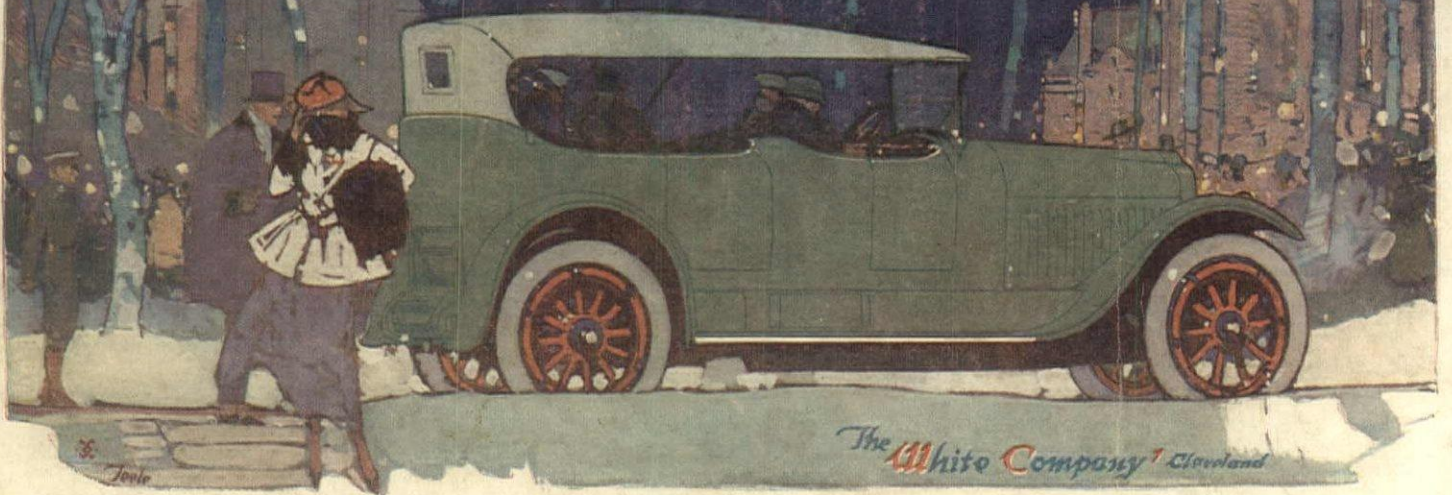
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White

The difference between the best medium grade motor car and a White can not be put into words. It is a matter of sensible impression and of actual experience. The difference between a substantial piece of furniture produced in quantities at a price and the deftly fashioned product of a craftsman unhampered by limitations.

The style and quality of a White are immediately apparent to even the casual observer, and they grow more marked with years of use.



The **White** Company, Cleveland